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RESPONSIVENESS AT LASA

12 APRIL 1967

REPORT No. LL-5

Prepared for

LINCOLN LABORATORIES  
MASSACHUSETTS INSTITUTE of TECHNOLOGY

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# SIGNAL AND NOISE RESPONSIVENESS AT LASA

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Purchase Order # BB-246

PRIME CONTRACT AF 19(628)-5167



EARTH SCIENCES

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## FOREWORD

The work documented in this report was done as a study to determine signal and noise response levels at the Large Aperture Seismic Array (LASA) in Montana.

The work was performed by Applied Research Section, Earth Sciences, a Teledyne Company, 316 Montgomery Street, Alexandria, Virginia, under Lincoln Laboratory Contract Number BB-246.

This report was written by D. E. Frankowski, Assistance was provided by A. L. Kurtz, R. D. Mierley, and P. A. Santiago. The project director was Dr. P. W. Broome.



# ABSTRACT

Signal and noise responsiveness at LASA are presented. Signal responsiveness is given as peak-to-peak measurements. Noise responsiveness is given as spectral estimates in various frequency bands.

Accepted for the Air Force  
Franklin C. Hudson  
Chief, Lincoln Laboratory Office

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## INTRODUCTION

The Large Aperture Seismic Array (LASA) has become an operational seismic tool. In order to determine its efficiency for detecting seismic events as well as the efficiency of array processing techniques it is necessary to know the general signal and noise responsiveness at LASA prior to any processing of the recorded data.

## PROCEDURE

LASA consists of 21 subarrays of 25 seismometers each, as shown in Figures 1 and 2. The center seismometer of each subarray is located in a 500 foot well. All other seismometers are in 200 foot wells. The 200 foot and 500 foot seismometers were treated separately in this analysis. An unphased sum of all operational 200 foot sites of each subarray was generated.

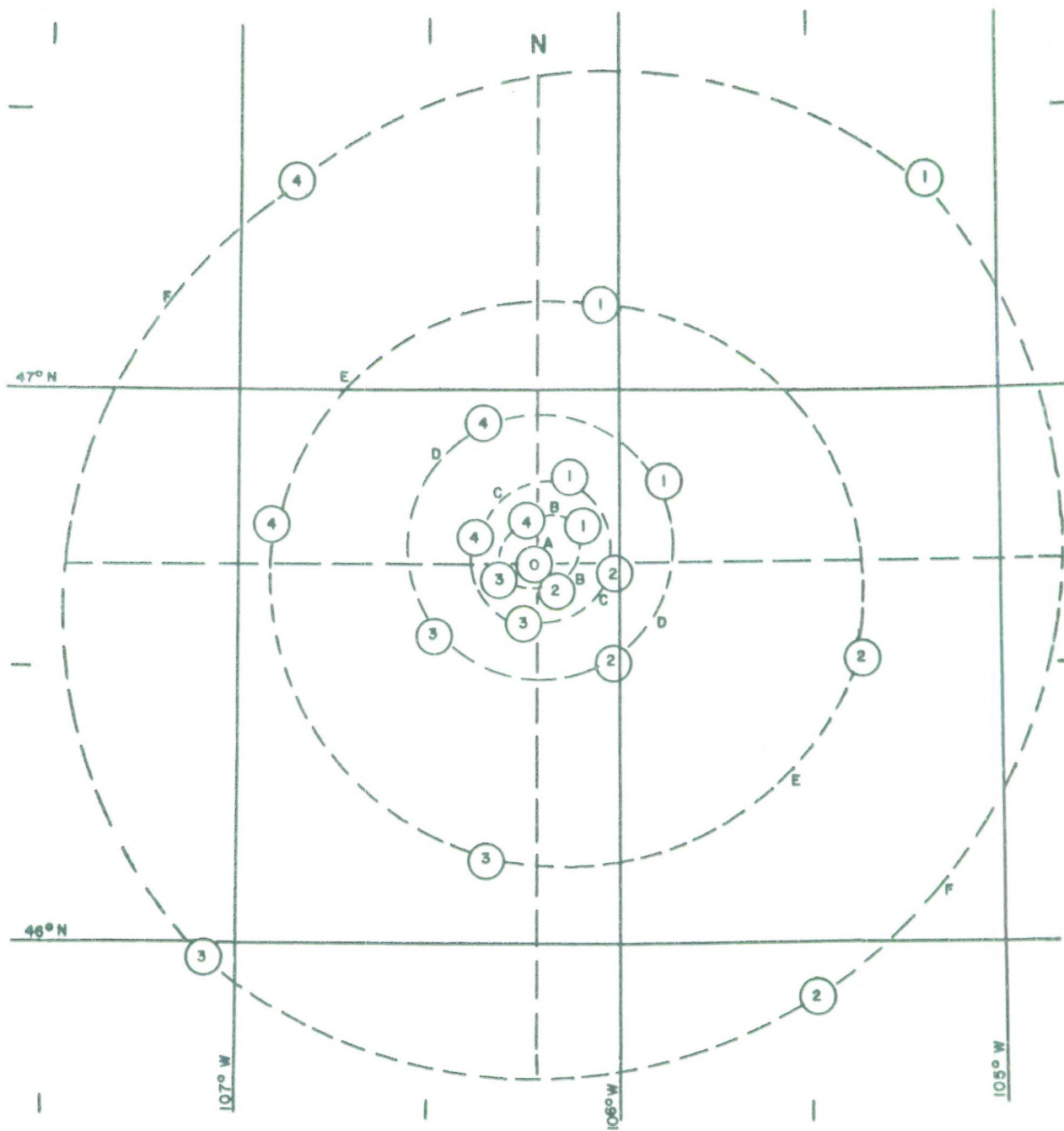
The analysis performed consisted of analyzing a data sample containing both a teleseismic signal and the preceding noise to estimate the noise amplitude spectra in five frequency bands, and the peak amplitude of the teleseismic signal. This was done for the center seismometer, the unphased sum, and a set of the 200 foot seismometers at each subarray. The average and standard deviation of these values were computed at each subarray. All analysis was performed by means of a digital computer program called "Lincoln."

A sample output from "Lincoln" is shown in Figure 3. The spectral estimates are listed for each sensor in a subarray. The six instruments of the 2-ring of each subarray were used to estimate the average for all 25 instruments of that subarray. The average was formed from all 200 foot sites in the B2 and F4 subarrays as a check for this approximation. The plots of Figure

4 show that this was a good approximation. The average, standard deviation, and signal/noise ratio were computed for all 200 foot seismometers used in a subarray.

The center seismometer and unphased sum estimates were compared to the computed average of the 200 foot seismometers and noted to be "high, low, or same" to the average. The value was considered to be "same" if it was within a range given by the average plus or minus one standard deviation.

Figure 5 shows the average spectral estimates over all noise samples and over all stations respectively. It is seen that there is an indicated seasonal variation in the noise level as well as variation among subarray average levels.



SUB-ARRAY "AO":

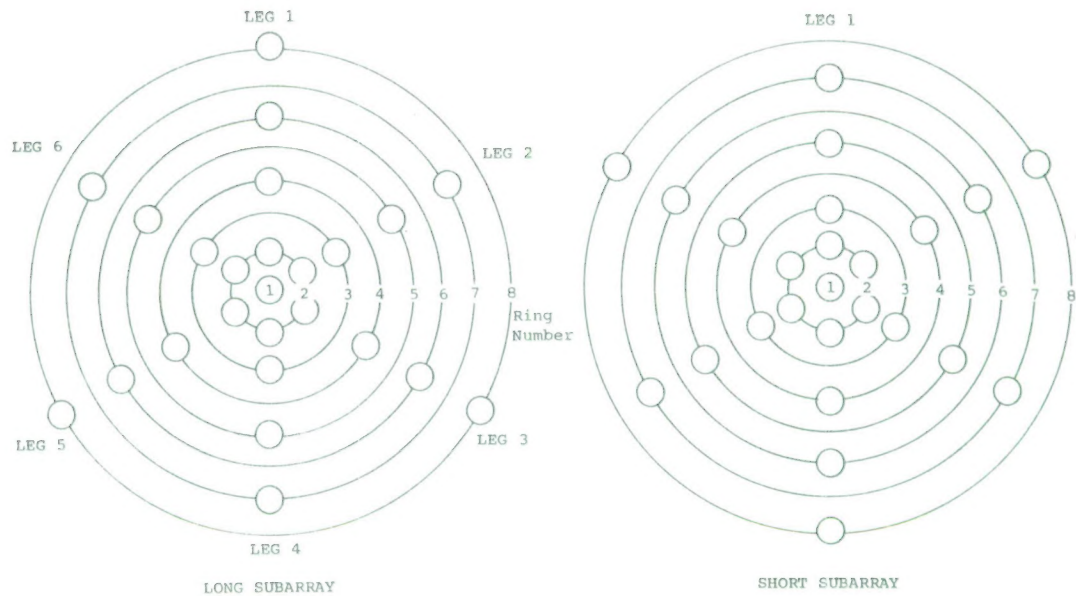
46° 41' 19" N  
106° 13' 20" W

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**LASA**

Figure 1





|    | SUBARRAY CENTER COORDINATES |               | CENTER ELEVATION | SHORT OR LONG | LEG 1 ORIENTATION |
|----|-----------------------------|---------------|------------------|---------------|-------------------|
|    | LATITUDE (N)                | LONGITUDE (W) | (METERS)         |               |                   |
| A0 | 46° 41' 19"                 | 106° 13' 20"  | 896.8            | LONG          | 4° W              |
| B1 | 46° 45' 08"                 | 106° 05' 30"  | 906.8            | SHORT         | 0°                |
| B2 | 46° 38' 06"                 | 106° 09' 46"  | 846.3            | SHORT         | 5° W              |
| B3 | 46° 39' 33"                 | 106° 19' 01"  | 874.9            | SHORT         | 33° E             |
| B4 | 46° 46' 05"                 | 106° 14' 35"  | 869.0            | SHORT         | 17° E             |
|    |                             |               |                  |               |                   |
| C1 | 46° 50' 22"                 | 106° 07' 39"  | 870.4            | SHORT         | 18½° E            |
| C2 | 46° 40' 10"                 | 106° 00' 45"  | 931.8            | SHORT         | 1° W              |
| C3 | 46° 34' 27"                 | 106° 14' 59"  | 834.8            | SHORT         | 7½° E             |
| C4 | 46° 44' 07"                 | 106° 22' 26"  | 916.4            | LONG          | 0°                |
|    |                             |               |                  |               |                   |
| D1 | 46° 50' 23"                 | 105° 53' 22"  | 911.0            | LONG          | 12° W             |
| D2 | 46° 30' 11"                 | 106° 00' 36"  | 813.1            | SHORT         | 1° W              |
| D3 | 46° 32' 59"                 | 106° 28' 49"  | 952.9            | SHORT         | 33½° E            |
| D4 | 46° 56' 31"                 | 106° 23' 00"  | 866.0            | LONG          | 9° E              |
|    |                             |               |                  |               |                   |
| E1 | 47° 09' 46"                 | 106° 03' 22"  | 837.9            | LONG          | 0°                |
| E2 | 46° 30' 46"                 | 105° 21' 53"  | 762.2            | SHORT         | 16° E             |
| E3 | 46° 08' 58"                 | 106° 20' 03"  | 913.7            | SHORT         | 0°                |
| E4 | 46° 45' 39"                 | 106° 55' 00"  | 955.3            | LONG          | 24½° E            |
|    |                             |               |                  |               |                   |
| F1 | 47° 22' 15"                 | 105° 11' 15"  | 892.5            | LONG          | 14½° E            |
| F2 | 45° 54' 34"                 | 105° 21' 53"  | 906.7            | LONG          | 21° W             |
| F3 | 45° 58' 22"                 | 107° 04' 54"  | 989.7            | LONG          | 6° W              |
| F4 | 47° 24' 40"                 | 106° 56' 37"  | 859.8            | SHORT         | 9½° W             |

FIGURE 2. LASA SUBARRAY CONFIGURATION

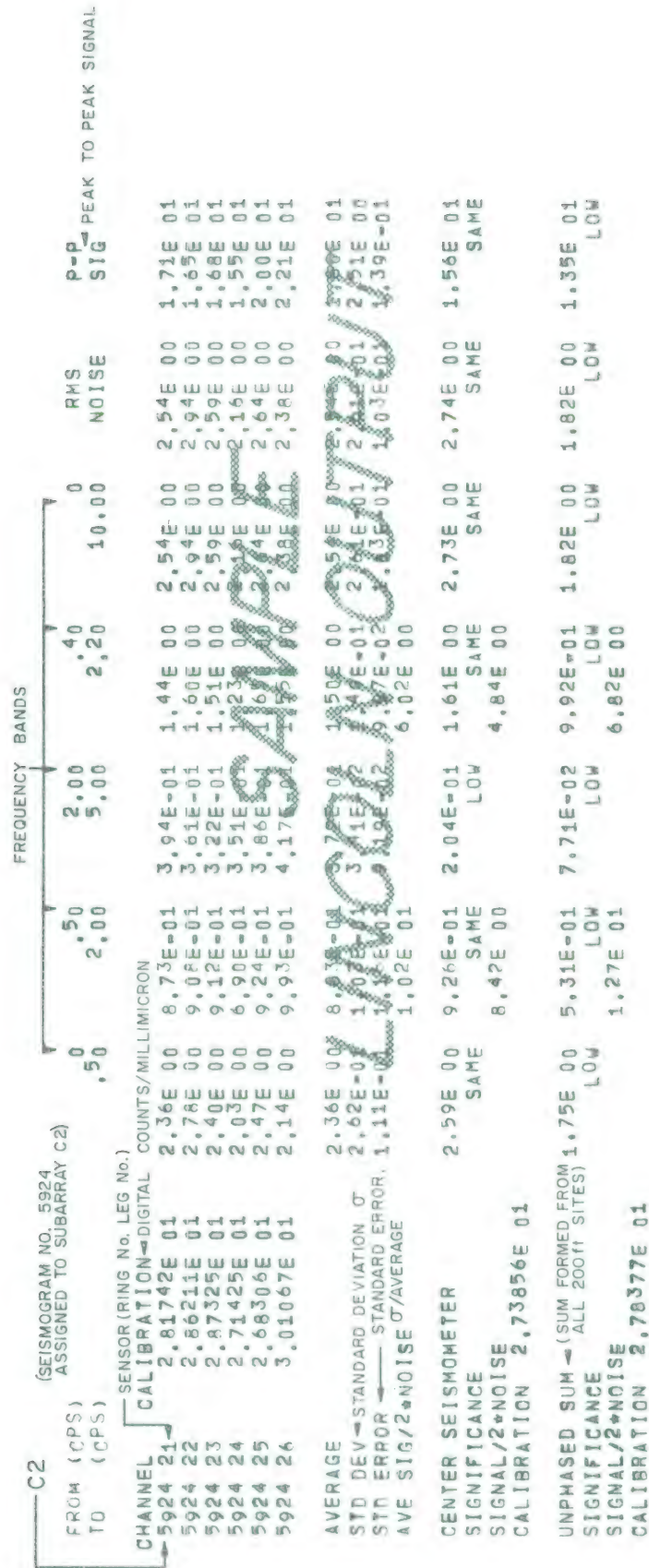


Figure 3. Sample Lincoln Output



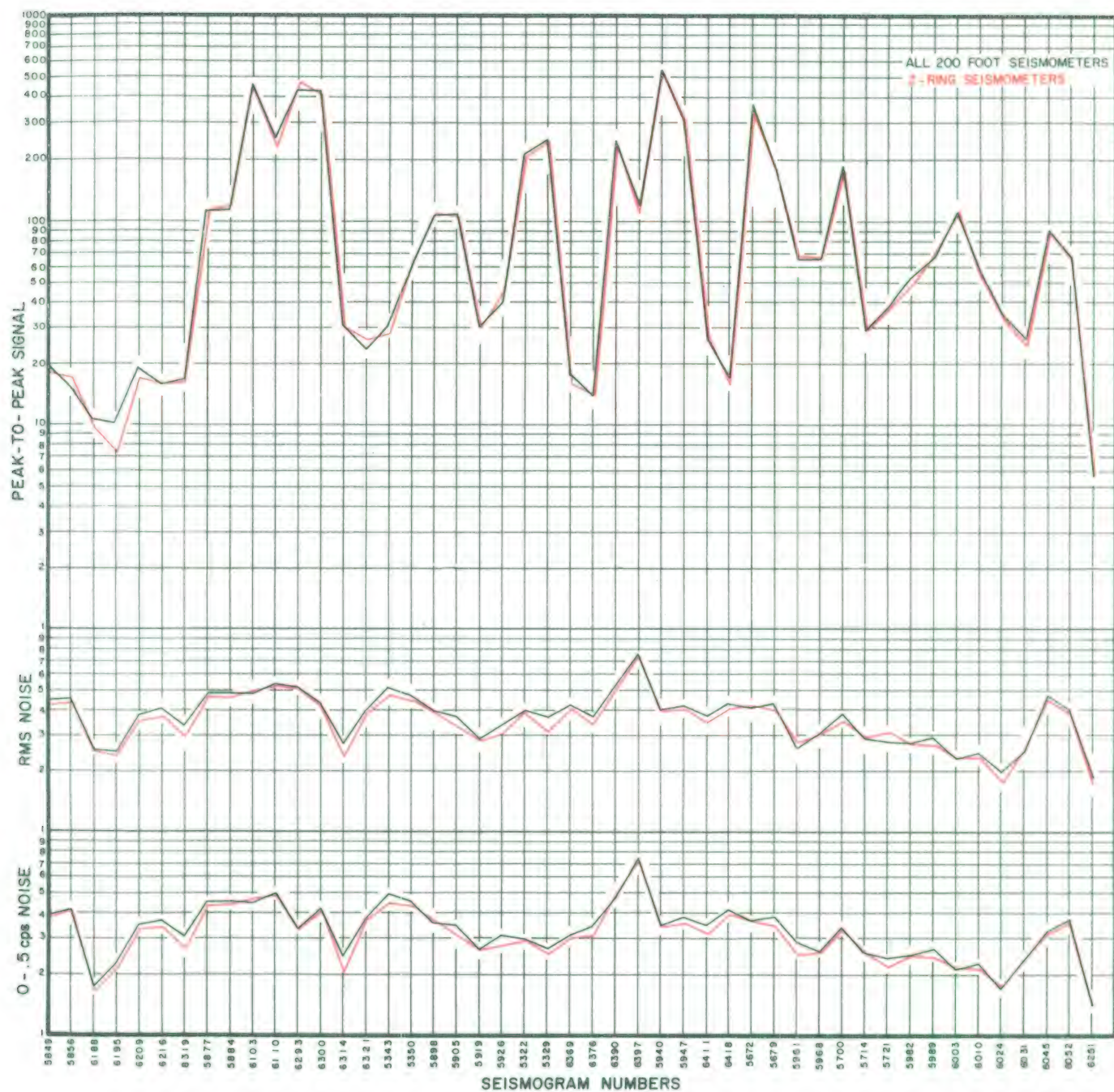


Figure 4. Comparison of means from 2-ring seismometers and from all 200-foot seismometers.

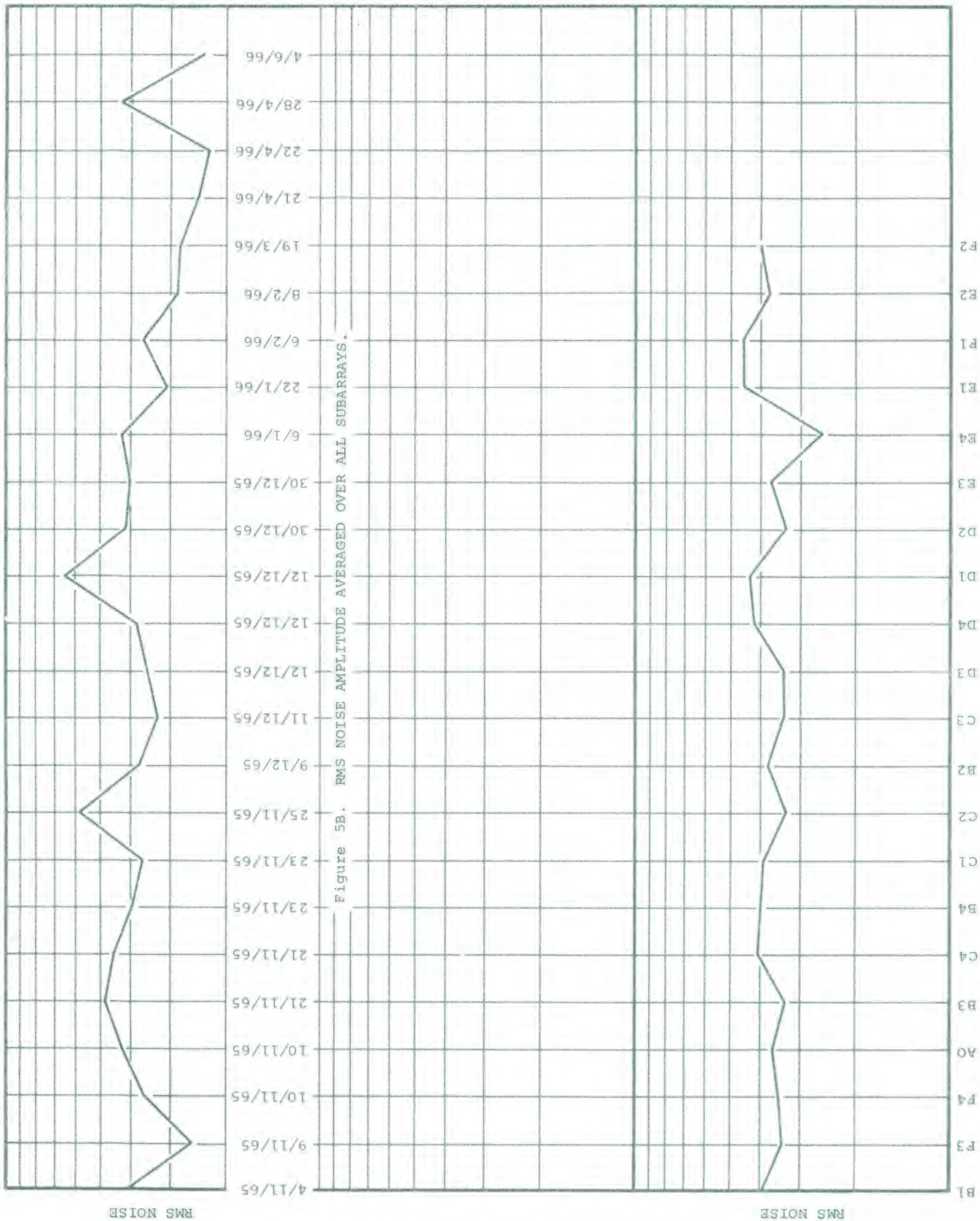


Figure 5A. RMS NOISE AMPLITUDE AVERAGED OVER ALL NOISE SAMPLES

APPENDIX A



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99





| C1      |  | FROM (CPS)  |  | TO (CPS) |  | 2.00    |  | 3.00    |  | 4.00    |  | 5.00    |  | 6.00    |  | 7.00    |  | 8.00    |  | 9.00    |  | 10.00   |  | 11.00   |  | 12.00   |  | 13.00   |  | 14.00   |  | 15.00   |  | 16.00   |  | 17.00   |  | 18.00   |  | 19.00   |  | 20.00   |  | 21.00   |  | 22.00   |  | 23.00   |  | 24.00   |  | 25.00   |  | 26.00   |  | 27.00   |  | 28.00   |  | 29.00   |  | 30.00   |  | 31.00   |  | 32.00   |  | 33.00   |  | 34.00   |  | 35.00   |  | 36.00   |  | 37.00   |  | 38.00   |  | 39.00   |  | 40.00   |  | 41.00   |  | 42.00   |  | 43.00   |  | 44.00   |  | 45.00   |  | 46.00   |  | 47.00   |  | 48.00   |  | 49.00   |  | 50.00   |  | 51.00   |  | 52.00   |  | 53.00   |  | 54.00   |  | 55.00   |  | 56.00   |  | 57.00   |  | 58.00   |  | 59.00   |  | 60.00   |  | 61.00   |  | 62.00   |  | 63.00   |  | 64.00   |  | 65.00   |  | 66.00   |  | 67.00   |  | 68.00   |  | 69.00   |  | 70.00   |  | 71.00   |  | 72.00   |  | 73.00   |  | 74.00   |  | 75.00   |  | 76.00   |  | 77.00   |  | 78.00   |  | 79.00   |  | 80.00   |  | 81.00   |  | 82.00   |  | 83.00   |  | 84.00   |  | 85.00   |  | 86.00   |  | 87.00   |  | 88.00   |  | 89.00   |  | 90.00   |  | 91.00   |  | 92.00   |  | 93.00   |  | 94.00   |  | 95.00   |  | 96.00   |  | 97.00   |  | 98.00   |  | 99.00   |  | 100.00  |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |         |  |       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21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 5954 21 |  | 59 |  |

| D3                      |          |          |          |          |          |   |          |          |     | D2         |          |          |          |          |          |   |          |          |     | D4         |          |          |          |          |          |   |          |          |     |
|-------------------------|----------|----------|----------|----------|----------|---|----------|----------|-----|------------|----------|----------|----------|----------|----------|---|----------|----------|-----|------------|----------|----------|----------|----------|----------|---|----------|----------|-----|
| FROM (CPS)              | TO (CPS) | 2.00     | 2.20     | 1.40     | 1.60     | 0 | RMS      | SNR      | DB  | FROM (CPS) | TO (CPS) | 2.00     | 2.20     | 1.40     | 1.60     | 0 | RMS      | SNR      | DB  | FROM (CPS) | TO (CPS) | 2.00     | 2.20     | 1.40     | 1.60     | 0 | RMS      | SNR      | DB  |
| CHANNEL CALIBRATION     |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| 5800 21                 | 5800 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5801 21    | 5801 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5802 21    | 5802 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5803 21                 | 5803 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5804 21    | 5804 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5805 21    | 5805 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5806 21                 | 5806 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5807 21    | 5807 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5808 21    | 5808 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5809 21                 | 5809 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5810 21    | 5810 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5811 21    | 5811 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5812 21                 | 5812 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5813 21    | 5813 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5814 21    | 5814 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5815 21                 | 5815 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5816 21    | 5816 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5817 21    | 5817 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5818 21                 | 5818 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5819 21    | 5819 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5820 21    | 5820 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5821 21                 | 5821 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5822 21    | 5822 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5823 21    | 5823 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5824 21                 | 5824 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5825 21    | 5825 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5826 21    | 5826 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5827 21                 | 5827 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5828 21    | 5828 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5829 21    | 5829 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| 5830 21                 | 5830 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5831 21    | 5831 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 | 5832 21    | 5832 21  | 2.17E-01 | 2.17E-01 | 2.17E-01 | 2.17E-01 | 0 | 2.17E-01 | 1.15E-01 | 0.1 |
| AVERAGE                 |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| STD DEV                 |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| STD ERROR               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| AVE SIG2*NOISE          |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| CENTER SIGNATURE        |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| CALIBRATION 2.80719E 01 |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| UNPHASED SUM            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| CALIBRATION 2.89226E 01 |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| UNPHASED SUM            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| CALIBRATION 2.80792E 01 |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| UNPHASED SUM            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| SIGNATURE               |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |
| CALIBRATION 3.42950E 01 |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |            |          |          |          |          |          |   |          |          |     |









## F3

| FROM (CPS)              | TO (CPS)    | 0        | 50       | 200      | 500      | 1000     | RMS      | P-P      | SIG      |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL                 | CALIBRATION |          |          |          |          |          |          |          |          |
| 6187 21                 | 3.04802E 01 | 1.72E 00 | 7.94E-01 | 5.81E-01 | 9.84E-01 | 1.97E 00 | 1.97E 00 | 1.23E 01 | 1.23E 01 |
| 6187 22                 | 2.8061E 01  | 1.90E 00 | 8.07E-01 | 6.28E-01 | 1.01E 00 | 1.97E 00 | 1.97E 00 | 1.09E 01 | 1.09E 01 |
| 6187 23                 | 3.18769E 01 | 2.11E 00 | 8.74E-01 | 5.70E-01 | 1.12E 00 | 2.58E 00 | 2.58E 00 | 1.09E 01 | 1.09E 01 |
| 6187 24                 | 3.12800E 01 | 1.81E 00 | 9.22E-01 | 4.67E-01 | 1.07E 00 | 2.06E 00 | 2.06E 00 | 1.07E 00 | 1.07E 00 |
| 6187 25                 | 3.10490E 01 | 1.01E 00 | 1.01E 00 | 4.90E-01 | 1.59E 00 | 2.06E 00 | 2.06E 00 | 1.07E 00 | 1.07E 00 |
| 6187 26                 | 2.79500E 01 | 2.37E 00 | 1.01E 00 | 5.90E-01 | 1.66E 00 | 2.06E 00 | 2.06E 00 | 1.10E 01 | 1.10E 01 |
| AVERAGE                 |             | 2.02E 00 | 9.03E-01 | 5.88E-01 | 1.11E 00 | 2.30E 00 | 2.30E 00 | 1.09E 01 | 1.09E 01 |
| STD DEV                 |             | 2.51E-01 | 9.47E-02 | 1.28E-01 | 3.09E-01 | 2.42E-01 | 2.42E-01 | 1.10E 01 | 1.10E 01 |
| STD ERROR               |             | 1.25E-01 | 1.05E-01 | 2.18E-01 | 1.05E-01 | 1.05E-01 | 1.05E-01 | 1.05E-01 | 1.05E-01 |
| AVE SIG/2*NOISE         |             | 8.85E 00 |          |          | 4.52E 00 |          |          |          |          |
| CENTER SEISMOGRAPH      |             | 2.14E 00 | 8.28E-01 | 2.98E-01 | 1.94E 00 | 2.31E 00 | 2.31E 00 | 1.10E 01 | 1.10E 01 |
| SIGNAL/2*NOISE          |             | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     |
| CALIBRATION 3.52153E 01 |             |          | 6.64E 00 |          | 5.30E 00 |          |          |          |          |
| UNPHASED SUM            |             | 1.49E 00 | 6.01E-01 | 1.14E-01 | 7.72E-01 | 1.60E 00 | 1.60E 00 | 3.66E 00 | 3.66E 00 |
| SIGNAL/2*NOISE          |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION 2.95337E 01 |             |          | 5.30E 00 |          | 2.37E 00 |          |          |          |          |

## F4

| FROM (CPS)              | TO (CPS)    | 0        | 50       | 200      | 500      | 1000     | RMS      | P-P      | SIG      |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL                 | CALIBRATION |          |          |          |          |          |          |          |          |
| 6188 21                 | 2.73288E 01 | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| 6188 22                 | 2.44350E 01 | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| 6188 23                 | 2.44350E 01 | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| 6188 24                 | 2.44350E 01 | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| 6188 25                 | 2.44350E 01 | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| 6188 26                 | 2.44350E 01 | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| AVERAGE                 |             | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| STD DEV                 |             | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| STD ERROR               |             | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| AVE SIG/2*NOISE         |             | 2.93E 00 |          |          | 2.62E 00 |          |          |          |          |
| CENTER SEISMOGRAPH      |             | 2.02E 00 | 1.64E 00 | 2.22E-01 | 1.92E 00 | 2.62E 00 | 2.62E 00 | 1.10E 01 | 1.10E 01 |
| SIGNAL/2*NOISE          |             | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     |
| CALIBRATION 2.84035E 01 |             |          | 3.47E 00 |          | 2.99E 00 |          |          |          |          |
| UNPHASED SUM            |             | 1.34E 00 | 1.63E 00 | 4.55E-01 | 1.82E 00 | 2.37E 00 | 2.37E 00 | 1.83E 01 | 1.83E 01 |
| SIGNAL/2*NOISE          |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION 2.83640E 01 |             |          | 4.44E 00 |          | 3.48E 00 |          |          |          |          |

SEISMOGRAMS 6186-6206 9 NOVEMBER 1965

NOISE SAMPLE 51-2 SECONDS STARTING AT 02:47:34.0 GMT

## SEISMIC SIGNAL

ORIGIN TIME 02:39:38.0 GMT

EPICENTER 28.4°N, 83.6°W ATLANTIC RIDGE

AO ARRIVAL TIME 02:48:44.1 GMT

## B1

| FROM (CPS)              | TO (CPS)    | 0        | 50       | 150      | 200      | 250      | 400      | 1000     | RMS      | P-P      | SIG      |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL                 | CALIBRATION |          |          |          |          |          |          |          |          |          |          |
| 6186 21                 | 2.93075E 01 | 2.22E 00 | 1.20E 00 | 1.20E 00 | 3.26E-01 | 1.09E 00 | 2.93E 00 | 2.93E 00 | 2.93E 00 | 2.33E 01 | 2.33E 01 |
| 6186 22                 | 2.85140E 01 | 2.22E 00 | 1.20E 00 | 1.20E 00 | 3.26E-01 | 1.09E 00 | 2.93E 00 | 2.93E 00 | 2.93E 00 | 2.33E 01 | 2.33E 01 |
| 6186 23                 | 2.85140E 01 | 2.22E 00 | 1.20E 00 | 1.20E 00 | 3.26E-01 | 1.09E 00 | 2.93E 00 | 2.93E 00 | 2.93E 00 | 2.33E 01 | 2.33E 01 |
| 6186 24                 | 2.85140E 01 | 2.22E 00 | 1.20E 00 | 1.20E 00 | 3.26E-01 | 1.09E 00 | 2.93E 00 | 2.93E 00 | 2.93E 00 | 2.33E 01 | 2.33E 01 |
| 6186 25                 | 2.85140E 01 | 2.22E 00 | 1.20E 00 | 1.20E 00 | 3.26E-01 | 1.09E 00 | 2.93E 00 | 2.93E 00 | 2.93E 00 | 2.33E 01 | 2.33E 01 |
| 6186 26                 | 2.85140E 01 | 2.22E 00 | 1.20E 00 | 1.20E 00 | 3.26E-01 | 1.09E 00 | 2.93E 00 | 2.93E 00 | 2.93E 00 | 2.33E 01 | 2.33E 01 |
| AVERAGE                 |             | 2.00E 00 | 1.00E 00 | 1.00E 00 | 3.00E-01 | 1.00E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 1.00E 01 | 1.00E 01 |
| STD DEV                 |             | 2.72E-01 | 9.50E-02 | 9.50E-02 | 3.00E-02 | 9.50E-02 | 2.00E-01 | 2.00E-01 | 2.00E-01 | 1.00E-01 | 1.00E-01 |
| STD ERROR               |             | 1.31E-01 | 4.75E-02 | 4.75E-02 | 1.50E-02 | 4.75E-02 | 1.00E-01 | 1.00E-01 | 1.00E-01 | 5.00E-02 | 5.00E-02 |
| AVE SIG/2*NOISE         |             | 5.62E 00 |          |          |          |          |          |          |          |          |          |
| CENTER SEISMOGRAPH      |             | 1.70E 00 | 1.00E 00 | 1.00E 00 | 1.70E-01 | 1.00E 00 | 1.00E 00 | 1.00E 00 | 1.00E 00 | 1.00E 00 | 1.00E 00 |
| SIGNAL/2*NOISE          |             | LOW      | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     | SAFE     |
| CALIBRATION 2.82478E 01 |             |          | 5.07E 00 |          |          |          |          |          |          |          |          |
| UNPHASED SUM            |             | 1.37E 00 | 5.15E-01 | 7.63E-02 | 1.48E 00 | 1.48E 00 | 1.48E 00 | 1.48E 00 | 1.48E 00 | 9.01E 00 | 9.01E 00 |
| SIGNAL/2*NOISE          |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION 2.86539E 01 |             |          | 8.84E 00 |          |          |          |          |          |          |          |          |



[illegible]

| B5              |    | FROM (CS) |      | TO (CS) |      | P/P  |      | RMS    |      | SIG  |      |
|-----------------|----|-----------|------|---------|------|------|------|--------|------|------|------|
|                 |    | 1.0       | 2.0  | 3.0     | 4.0  | 1.00 | 2.00 | 3.00   | 4.00 | 1.00 | 2.00 |
| CHANNEL 5118000 |    |           |      |         |      |      |      |        |      |      |      |
| 41000           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41001           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41002           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41003           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41004           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41005           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41006           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41007           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41008           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41009           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41010           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41011           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41012           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41013           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41014           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41015           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41016           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41017           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41018           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41019           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41020           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41021           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41022           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41023           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41024           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41025           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41026           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41027           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41028           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41029           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00   | 2.00 | 1.00 | 1.00 |
| 41030           | 01 | 1.00      | 1.00 | 1.00    | 1.00 | 2.00 | 2.00 | 2.00</ |      |      |      |

FROM ( )  
TO ( )

EXAMINES  
6190  
6190  
6190  
6190  
6190  
6190

AVERAGE  
STD DEV  
AVE ST

CENTER  
SIGNIF  
SIGNIF  
CALIBR

UNPRAS  
SIGNIF  
SIGNIF  
CALIBR











[illegible][illegible]



F3

FROM (CPS)  
TO (CPS)0  
02.00  
5.000  
10.00P-P  
SIG

CHANNEL CALIBRATION

|         |             |          |          |          |          |          |
|---------|-------------|----------|----------|----------|----------|----------|
| 4208 21 | 3.50E 00    | 9.11E-01 | 1.17E 00 | 2.75E 00 | 2.75E 00 | 1.33E 01 |
| 4208 22 | 2.87334E 01 | 9.11E-01 | 1.17E 00 | 2.75E 00 | 2.75E 00 | 1.33E 01 |
| 4208 23 | 3.17200E 01 | 9.11E-01 | 1.17E 00 | 2.75E 00 | 2.75E 00 | 1.33E 01 |
| 4208 24 | 3.17200E 01 | 9.11E-01 | 1.17E 00 | 2.75E 00 | 2.75E 00 | 1.33E 01 |
| 4208 25 | 3.17200E 01 | 9.11E-01 | 1.17E 00 | 2.75E 00 | 2.75E 00 | 1.33E 01 |
| 4208 26 | 2.79497E 01 | 9.11E-01 | 1.17E 00 | 2.75E 00 | 2.75E 00 | 1.33E 01 |

AVERAGE  
STD DEV  
STD ERROR  
AVE SIG/2\*NOISE

3.50E 00  
4.07E-01  
1.36E-01  
1.04E 01

CENTER SEISMOMETER  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 3.41501E 01

3.15E 00  
SAME  
SAME  
1.41E 01

UNPHASED SUM  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.95634E 01

2.22E 00  
LOW  
LOW  
1.54E 01

SEISMOGRAM 6207-6227 10 NOVEMBER 1965

NOISE SAMPLE 51.2 SECONDS STARTING AT 01:57:23.0 GMT

SEISMIC SIGNAL

ORIGIN TIME

01:47:22.8 GMT

EPICENTER

17.8°S, 69.6°W PERU-BOLIVIA BORDER

AO ARRIVAL TIME

01:58:33.4 GMT

BI

FROM (CPS)  
TO (CPS)0  
02.00  
5.000  
10.00P-P  
SIG

CHANNEL CALIBRATION

|         |            |          |          |          |          |          |
|---------|------------|----------|----------|----------|----------|----------|
| 6207 21 | 3.90E 00   | 1.37E 00 | 6.97E-01 | 1.66E 00 | 4.13E 00 | 1.57E 01 |
| 6207 22 | 2.9497E 01 | 1.37E 00 | 6.97E-01 | 1.66E 00 | 4.13E 00 | 1.57E 01 |
| 6207 23 | 2.9497E 01 | 1.37E 00 | 6.97E-01 | 1.66E 00 | 4.13E 00 | 1.57E 01 |
| 6207 24 | 3.2821E 01 | 1.37E 00 | 6.97E-01 | 1.66E 00 | 4.13E 00 | 1.57E 01 |
| 6207 25 | 3.2435E 01 | 1.37E 00 | 6.97E-01 | 1.66E 00 | 4.13E 00 | 1.57E 01 |
| 6207 26 | 2.7535E 01 | 1.37E 00 | 6.97E-01 | 1.66E 00 | 4.13E 00 | 1.57E 01 |

AVERAGE  
STD DEV  
STD ERROR  
AVE SIG/2\*NOISE

3.51E 00  
4.24E-01  
1.21E-01  
5.85E 00

CENTER SEISMOMETER  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.8357E 01

2.80E 00  
LOW  
LOW  
5.60E 00

UNPHASED SUM  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.9274E 01

2.69E 00  
LOW  
LOW  
5.21E 00

F4

FROM (CPS)  
TO (CPS)0  
02.00  
5.000  
10.00P-P  
SIG

CHANNEL CALIBRATION

|         |            |          |          |          |          |          |
|---------|------------|----------|----------|----------|----------|----------|
| 6207 21 | 2.8490E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 22 | 2.8490E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 23 | 3.3950E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 24 | 2.6556E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 25 | 2.7477E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 26 | 2.7589E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |

AVERAGE  
STD DEV  
STD ERROR  
AVE SIG/2\*NOISE

3.54E 00  
4.07E-01  
1.36E-01  
1.04E 01

CENTER SEISMOMETER  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 3.41501E 01

3.15E 00  
SAME  
SAME  
1.41E 01

UNPHASED SUM  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.95634E 01

2.22E 00  
LOW  
LOW  
1.54E 01

|         |            |          |          |          |          |          |
|---------|------------|----------|----------|----------|----------|----------|
| 6207 21 | 2.8490E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 22 | 2.8490E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 23 | 3.3950E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 24 | 2.6556E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 25 | 2.7477E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |
| 6207 26 | 2.7589E 01 | 9.11E-01 | 1.25E 00 | 2.77E 00 | 2.77E 00 | 1.39E 01 |

AVERAGE  
STD DEV  
STD ERROR  
AVE SIG/2\*NOISE

3.54E 00  
4.07E-01  
1.36E-01  
1.04E 01

CENTER SEISMOMETER  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 3.41501E 01

3.15E 00  
SAME  
SAME  
1.41E 01

UNPHASED SUM  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.95634E 01

2.22E 00  
LOW  
LOW  
1.54E 01





| FROM (CPS)          |             | 0        |          | 2.00     |          | 5.00     |          | 10.00    |          | 2.00     |          | 5.00     |          | 10.00    |          | RMS      |          | P-P      |          | SIG      |          |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TO (CPS)            |             | 0        |          | 2.00     |          | 5.00     |          | 10.00    |          | 2.00     |          | 5.00     |          | 10.00    |          | RMS      |          | P-P      |          | SIG      |          |
| C1                  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 6214 21             | 3.10475E 01 | 4.00E 00 | 1.30E 00 | 9.54E-01 | 1.76E 00 | 4.34E 00 | 2.21E 01 | 4.42E 00 | 1.9E 00  | 7.72E-01 | 1.64E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 |
| 6214 22             | 2.8367E 01  | 4.00E 00 | 1.30E 00 | 1.00E 00 | 4.28E 00 | 4.28E 00 | 2.31E 01 | 4.28E 00 | 1.9E 00  | 5.77E-01 | 1.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 |          |
| 6214 23             | 2.8367E 01  | 4.00E 00 | 1.30E 00 | 1.00E 00 | 4.28E 00 | 4.28E 00 | 2.31E 01 | 4.28E 00 | 1.9E 00  | 5.77E-01 | 1.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 |          |
| 6214 24             | 3.1984E 01  | 4.00E 00 | 1.30E 00 | 1.00E 00 | 4.28E 00 | 4.28E 00 | 2.31E 01 | 4.28E 00 | 1.9E 00  | 5.77E-01 | 1.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 |          |
| 6214 25             | 2.7512E 01  | 4.00E 00 | 1.30E 00 | 1.00E 00 | 4.28E 00 | 4.28E 00 | 2.31E 01 | 4.28E 00 | 1.9E 00  | 5.77E-01 | 1.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 |          |
| 6214 26             | 3.0842E 01  | 4.00E 00 | 1.30E 00 | 1.00E 00 | 4.28E 00 | 4.28E 00 | 2.31E 01 | 4.28E 00 | 1.9E 00  | 5.77E-01 | 1.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 | 3.32E 00 |          |
| AVERAGE             |             | 3.54E 00 | 1.30E 00 | 1.00E 00 | 1.76E 00 | 4.34E 00 | 2.21E 01 | 4.42E 00 | 1.9E 00  | 7.72E-01 | 1.64E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 |
| STD DEV             |             | 4.12E-01 | 1.32E-01 | 1.02E-01 | 1.77E-01 | 4.37E-01 | 2.66E-01 | 4.37E-01 | 1.92E-01 | 5.75E-01 | 1.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 |
| STD ERROR           |             | 1.75E-01 | 6.45E-02 | 1.44E-01 | 1.32E-01 | 1.44E-01 | 1.20E-01 | 1.44E-01 | 1.92E-01 | 5.75E-01 | 1.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 | 3.32E-01 |
| AVE SIG/2*NOISE     |             | 7.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 | 2.55E 00 |
| CENTER SEISMOGRAPH  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| 6214 21             | 2.9548E 01  | 4.00E 00 | 1.30E 00 | 5.90E-01 | 1.90E 00 | 4.50E 00 | 2.28E 01 | 4.50E 00 | 1.9E 00  | 2.97E-01 | 1.76E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 |
| 6214 22             | 2.9548E 01  | 4.00E 00 | 1.30E 00 | 5.90E-01 | 1.90E 00 | 4.50E 00 | 2.28E 01 | 4.50E 00 | 1.9E 00  | 2.97E-01 | 1.76E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 | 4.86E 00 |
| 6214 23             | 2.9548E 01  | 4.00E 00 | 1.30E 00 | 5.90E-01 | 1.90E 00 |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |







[illegible]

E2

| FROM (CPS)          | TO (CPS)    | .50      | .20      | 2.00     | .40      | 10.00    | RMS NOISE | P-P      | SIG      |
|---------------------|-------------|----------|----------|----------|----------|----------|-----------|----------|----------|
| CHANNEL CALIBRATION |             |          |          |          |          |          |           |          |          |
| 6226 21             | 3.13981E 01 | 2.90E 00 | 1.30E 00 | 7.74E-01 | 1.65E 00 | 3.26E 00 | 3.26E 00  | 2.66E 00 | 2.66E 01 |
| 6226 22             | 3.24150E 01 | 1.87E 00 | 1.43E 00 | 1.25E 00 | 1.57E 00 | 2.65E 00 | 2.65E 00  | 2.74E 01 | 2.74E 01 |
| 6226 23             | 3.02650E 01 | 2.46E 00 | 1.30E 00 | 7.31E-01 | 1.61E 00 | 2.87E 00 | 2.87E 00  | 2.00E 01 | 2.00E 01 |
| 6226 24             | 3.01164E 01 | 2.24E 00 | 1.68E 00 | 9.26E-01 | 1.64E 00 | 2.93E 00 | 2.93E 00  | 2.96E 01 | 2.96E 01 |
| 6226 25             | 2.85067E 01 | 2.33E 00 | 1.45E 00 | 1.07E 00 | 1.61E 00 | 2.93E 00 | 2.93E 00  | 2.50E 01 | 2.50E 01 |
| 6226 26             | 2.78694E 01 | 2.56E 00 | 1.43E 00 | 1.04E 00 | 1.65E 00 | 3.11E 00 | 3.12E 00  | 2.66E 01 | 2.66E 01 |
| AVERAGE             |             |          |          |          |          |          |           |          |          |
| STD DEV             |             | 2.39E 00 | 1.43E 00 | 9.66E-01 | 1.64E 00 | 2.96E 00 | 2.96E 00  | 2.59E 01 | 2.59E 01 |
| STD ERROR           |             | 3.45E-01 | 1.45E-01 | 1.96E-01 | 1.13E-01 | 2.18E-01 | 2.18E-01  | 3.25E 00 | 3.25E 00 |
| AVE SIG/2*NOISE     |             | 1.44E-01 | 9.87E-02 | 3.83E-01 | 6.67E-02 | 7.89E-02 | 7.89E-02  | 1.26E-01 | 1.26E-01 |
| CENTER SEISMO METER |             |          |          |          |          |          |           |          |          |
| SIGNAL/2*NOISE      |             | 2.29E 00 | 1.21E 00 | 4.88E-01 | 1.41E 00 | 2.64E 00 | 2.64E 00  | 2.39E 01 | 2.39E 01 |
| CALIBRATION         | 2.81122E 01 | 2.29E 00 | 1.21E 00 | 4.88E-01 | 1.41E 00 | 2.64E 00 | 2.64E 00  | 2.39E 01 | 2.39E 01 |
| UNPHASED SUM        |             |          |          |          |          |          |           |          |          |
| SIGNAL/2*NOISE      |             | 1.61E 00 | 6.27E-01 | 3.24E-01 | 8.15E-01 | 1.76E 00 | 1.76E 00  | 1.70E 01 | 1.70E 01 |
| CALIBRATION         | 2.87549E 01 | 1.61E 00 | 6.27E-01 | 3.24E-01 | 8.15E-01 | 1.76E 00 | 1.76E 00  | 1.70E 01 | 1.70E 01 |

F2

| FROM (CPS)          | TO (CPS)    | .50      | .20      | 2.00     | .40      | 10.00    | RMS NOISE | P-P      | SIG      |
|---------------------|-------------|----------|----------|----------|----------|----------|-----------|----------|----------|
| CHANNEL CALIBRATION |             |          |          |          |          |          |           |          |          |
| 6227 21             | 2.72006E 01 | 2.86E 00 | 1.16E 00 | 4.79E-01 | 1.49E 00 | 3.44E 00 | 3.44E 00  | 3.43E 01 | 3.43E 01 |
| 6227 22             | 2.77220E 01 | 4.01E 00 | 1.43E 00 | 5.21E-01 | 1.75E 00 | 4.23E 00 | 4.23E 00  | 3.62E 01 | 3.62E 01 |
| 6227 23             | 3.06826E 01 | 4.10E 00 | 1.49E 00 | 6.13E-01 | 1.93E 00 | 4.40E 00 | 4.40E 00  | 4.10E 01 | 4.10E 01 |
| 6227 24             | 2.87616E 01 | 3.50E 00 | 1.20E 00 | 4.85E-01 | 1.64E 00 | 3.79E 00 | 3.79E 00  | 3.29E 01 | 3.29E 01 |
| 6227 25             | 2.94161E 01 | 3.72E 00 | 1.60E 00 | 5.51E-01 | 1.96E 00 | 4.44E 00 | 4.44E 00  | 3.75E 01 | 3.75E 01 |
| 6227 26             | 2.93903E 01 | 2.80E 00 | 1.28E 00 | 4.56E-01 | 1.69E 00 | 3.10E 00 | 3.11E 00  | 3.74E 01 | 3.74E 01 |
| AVERAGE             |             |          |          |          |          |          |           |          |          |
| STD DEV             |             | 3.52E 00 | 1.34E 00 | 5.18E-01 | 1.71E 00 | 3.79E 00 | 3.79E 00  | 3.67E 01 | 3.67E 01 |
| STD ERROR           |             | 5.57E-01 | 1.67E-01 | 5.24E-02 | 1.73E-01 | 3.43E-01 | 3.43E-01  | 3.09E 00 | 3.09E 00 |
| AVE SIG/2*NOISE     |             | 1.44E-01 | 9.87E-02 | 3.83E-01 | 6.67E-02 | 7.89E-02 | 7.89E-02  | 1.26E-01 | 1.26E-01 |
| CENTER SEISMO METER |             |          |          |          |          |          |           |          |          |
| SIGNAL/2*NOISE      |             | 2.78E 00 | 1.17E 00 | 2.63E-01 | 1.43E 00 | 3.03E 00 | 3.03E 00  | 2.72E 01 | 2.72E 01 |
| CALIBRATION         | 3.11622E 01 | 2.78E 00 | 1.17E 00 | 2.63E-01 | 1.43E 00 | 3.03E 00 | 3.03E 00  | 2.72E 01 | 2.72E 01 |
| UNPHASED SUM        |             |          |          |          |          |          |           |          |          |
| SIGNAL/2*NOISE      |             | 2.70E 00 | 7.61E-01 | 1.31E-01 | 1.00E 00 | 2.79E 00 | 2.79E 00  | 2.64E 01 | 2.64E 01 |
| CALIBRATION         | 2.86070E 01 | 2.70E 00 | 7.61E-01 | 1.31E-01 | 1.00E 00 | 2.79E 00 | 2.79E 00  | 2.64E 01 | 2.64E 01 |



## F3

FROM (PST)  
TO (CPS).50  
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2.00CHANNEL CALIBRATION  
3318 21 3.05000 01  
3318 22 3.05000 01  
3318 23 3.05000 01  
3318 24 3.05000 01  
3318 25 3.05000 01  
3318 26 3.05000 01AVERAGE  
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SEISMOGRAMS 8317-8337 10 NOVEMBER 1963

NOISE SAMPLE 51.2 SECONDS STARTING AT 04:05:30.0 GMT

SEISMIC SIGNAL

ORIGIN TIME

03:58:16.3 GMT

EPICENTER

51.2°N, 178.8°W ANDREANOF IS.

AO ARRIVAL TIME

04:05:30.0

Seismograms 8326 and 8333 are not included.

## B1

FROM (PST)  
TO (CPS).50  
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CHANNEL CALIBRATION

8317 21 2.95075 01

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FROM (NAME)  
TO (SPD)  
(CPS)

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FROM (CPS)  
TO (CPS)

[illegible]

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

[illegible]

| Year | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 1972 | 1.22 | 1.23 | 1.24 | 1.25 | 1.26 | 1.27 | 1.28 | 1.29 | 1.30 | 1.31 | 1.32 | 1.33 | 1.34 | 1.35 | 1.36 | 1.37 | 1.38 | 1.39 | 1.40 | 1.41 | 1.42 | 1.43 | 1.44 | 1.45 | 1.46 | 1.47 | 1.48 | 1.49 | 1.50 | 1.51 | 1.52 | 1.53 | 1.54 | 1.55 | 1.56 | 1.57 | 1.58 | 1.59 | 1.60 | 1.61 | 1.62 | 1.63 | 1.64 | 1.65 | 1.66 | 1.67 | 1.68 | 1.69 | 1.70 | 1.71 | 1.72 | 1.73 | 1.74 | 1.75 | 1.76 | 1.77 | 1.78 | 1.79 | 1.80 | 1.81 | 1.82 | 1.83 | 1.84 | 1.85 | 1.86 | 1.87 | 1.88 | 1.89 | 1.90 | 1.91 | 1.92 | 1.93 | 1.94 | 1.95 | 1.96 | 1.97 | 1.98 | 1.99 | 2.00 | 2.01 | 2.02 | 2.03 | 2.04 | 2.05 | 2.06 | 2.07 | 2.08 | 2.09 | 2.10 | 2.11 | 2.12 | 2.13 | 2.14 | 2.15 | 2.16 | 2.17 | 2.18 | 2.19 | 2.20 | 2.21 | 2.22 | 2.23 | 2.24 | 2.25 | 2.26 | 2.27 | 2.28 | 2.29 | 2.30 | 2.31 | 2.32 | 2.33 | 2.34 | 2.35 | 2.36 | 2.37 | 2.38 | 2.39 | 2.40 | 2.41 | 2.42 | 2.43 | 2.44 | 2.45 | 2.46 | 2.47 | 2.48 | 2.49 | 2.50 | 2.51 | 2.52 | 2.53 | 2.54 | 2.55 | 2.56 | 2.57 | 2.58 | 2.59 | 2.60 | 2.61 | 2.62 | 2.63 | 2.64 | 2.65 | 2.66 | 2.67 | 2.68 | 2.69 | 2.70 | 2.71 | 2.72 | 2.73 | 2.74 | 2.75 | 2.76 | 2.77 | 2.78 | 2.79 | 2.80 | 2.81 | 2.82 | 2.83 | 2.84 | 2.85 | 2.86 | 2.87 | 2.88 | 2.89 | 2.90 | 2.91 | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.97 | 2.98 | 2.99 | 3.00 | 3.01 | 3.02 | 3.03 | 3.04 | 3.05 | 3.06 | 3.07 | 3.08 | 3.09 | 3.10 | 3.11 | 3.12 | 3.13 | 3.14 | 3.15 | 3.16 | 3.17 | 3.18 | 3.19 | 3.20 | 3.21 | 3.22 | 3.23 | 3.24 | 3.25 | 3.26 | 3.27 | 3.28 | 3.29 | 3.30 | 3.31 | 3.32 | 3.33 | 3.34 | 3.35 | 3.36 | 3.37 | 3.38 | 3.39 | 3.40 | 3.41 | 3.42 | 3.43 | 3.44 | 3.45 | 3.46 | 3.47 | 3.48 | 3.49 | 3.50 | 3.51 | 3.52 | 3.53 | 3.54 | 3.55 | 3.56 | 3.57 | 3.58 | 3.59 | 3.60 | 3.61 | 3.62 | 3.63 | 3.64 | 3.65 | 3.66 | 3.67 | 3.68 | 3.69 | 3.70 | 3.71 | 3.72 | 3.73 | 3.74 | 3.75 | 3.76 | 3.77 | 3.78 | 3.79 | 3.80 | 3.81 | 3.82 | 3.83 | 3.84 | 3.85 | 3.86 | 3.87 | 3.88 | 3.89 | 3.90 | 3.91 | 3.92 | 3.93 | 3.94 | 3.95 | 3.96 | 3.97 | 3 |







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## D5

| FROM (CPS)          | TO (CPS)    | .50      | 2.00     | 5.00     | 10.00    | 20.00    | 50.00    | 100.00   | RMS      | P-P      | SIG      |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL             | CALIBRATION |          |          |          |          |          |          |          |          |          |          |
| 5866 21             | 2.9318E 01  | 4.44E 00 | 1.13E 00 | 8.45E-01 | 1.50E 00 | 1.00E 00 | 5.76E 00 | 5.07E 00 | 6.08E 00 | 5.46E 01 | 5.46E 01 |
| 5866 22             | 2.7979E 01  | 3.76E 00 | 9.72E-01 | 6.45E-01 | 1.10E 00 | 7.73E 00 | 5.00E 00 | 7.15E 00 | 7.15E 00 | 5.43E 01 | 5.43E 01 |
| 5866 23             | 2.9774E 01  | 4.40E 00 | 1.10E 00 | 8.35E-01 | 1.10E 00 | 4.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5866 24             | 2.9370E 01  | 3.76E 00 | 9.72E-01 | 6.45E-01 | 1.10E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5866 25             | 2.9370E 01  | 3.76E 00 | 9.72E-01 | 6.45E-01 | 1.10E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5866 26             | 3.0210E 01  | 4.44E 00 | 1.13E 00 | 8.45E-01 | 1.50E 00 | 4.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| AVERAGE             |             | 3.90E 00 | 9.70E-01 | 5.00E-01 | 1.50E 00 | 4.00E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| STD DEV             |             | 4.00E-01 | 1.00E-01 | 6.00E-02 | 1.50E-01 | 4.00E-01 | 5.00E-01 | 5.00E-01 | 5.00E-01 | 5.43E 01 | 5.43E 01 |
| SIG/2*NOISE         |             | 1.15E-01 | 2.87E-01 | 1.41E-01 | 3.00E-01 | 1.50E-01 | 1.50E-01 | 1.50E-01 | 1.50E-01 | 5.43E 01 | 5.43E 01 |
| AVE SIG/2*NOISE     |             | 2.87E 01 | 1.41E 01 | 3.00E 01 | 1.50E 01 | 1.50E 01 | 1.50E 01 | 1.50E 01 | 1.50E 01 | 5.43E 01 | 5.43E 01 |
| CENTER SEISMO METER |             | 4.33E 00 | 9.42E-01 | 2.40E-01 | 1.86E 00 | 4.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.43E 01 | 5.43E 01 |
| SIGNAL/2*NOISE      |             | 1.96E 01 | 1.96E 01 | 1.96E 01 | 1.96E 01 | 1.96E 01 | 1.96E 01 | 1.96E 01 | 1.96E 01 | 5.43E 01 | 5.43E 01 |
| CALIBRATION         | 2.88751E 01 |          |          |          |          |          |          |          |          | 5.43E 01 | 5.43E 01 |
| UNPHASED SUM        |             | 3.21E 00 | 6.26E-01 | 1.45E-01 | 9.49E-01 | 3.27E 00 | 4.40E 00 | 4.40E 00 | 4.40E 00 | 5.43E 01 | 5.43E 01 |
| SIGNAL/2*NOISE      |             | 3.31E 01 | 3.31E 01 | 3.31E 01 | 3.31E 01 | 3.31E 01 | 3.31E 01 | 3.31E 01 | 3.31E 01 | 5.43E 01 | 5.43E 01 |
| CALIBRATION         | 2.90543E 01 |          |          |          |          |          |          |          |          | 5.43E 01 | 5.43E 01 |

## D4

| FROM (CPS)          | TO (CPS)    | .50      | 2.00     | 5.00     | 10.00    | 20.00    | 50.00    | 100.00   | RMS      | P-P      | SIG      |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL             | CALIBRATION |          |          |          |          |          |          |          |          |          |          |
| 5887 21             | 2.6108E 01  | 3.94E 00 | 1.24E 00 | 8.45E-01 | 1.50E 00 | 3.40E 00 | 5.76E 00 | 5.07E 00 | 6.08E 00 | 5.46E 01 | 5.46E 01 |
| 5887 22             | 2.9321E 01  | 4.01E 00 | 1.50E 00 | 1.00E 00 | 1.10E 00 | 4.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5887 23             | 2.7135E 01  | 4.00E 00 | 1.50E 00 | 1.00E 00 | 1.10E 00 | 4.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5887 24             | 2.8175E 01  | 3.27E 00 | 1.40E 00 | 8.72E-01 | 1.50E 00 | 3.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5887 25             | 2.7475E 01  | 3.35E 00 | 1.40E 00 | 8.72E-01 | 1.50E 00 | 3.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| 5887 26             | 2.7669E 01  | 3.66E 00 | 1.60E 00 | 7.71E-01 | 1.50E 00 | 3.40E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| AVERAGE             |             | 3.65E 00 | 1.32E 00 | 1.00E 00 | 1.00E 00 | 4.00E 00 | 5.00E 00 | 5.00E 00 | 5.00E 00 | 5.43E 01 | 5.43E 01 |
| STD DEV             |             | 2.50E-01 | 6.00E-02 | 3.00E-02 | 6.00E-02 | 4.00E-01 | 5.00E-01 | 5.00E-01 | 5.00E-01 | 5.43E 01 | 5.43E 01 |
| SIG/2*NOISE         |             | 1.15E-01 | 1.15E-01 | 1.15E-01 | 1.15E-01 | 1.15E-01 | 1.15E-01 | 1.15E-01 | 1.15E-01 | 5.43E 01 | 5.43E 01 |
| AVE SIG/2*NOISE     |             | 7.82E 01 | 1.15E 01 | 1.15E 01 | 1.15E 01 | 1.15E 01 | 1.15E 01 | 1.15E 01 | 1.15E 01 | 5.43E 01 | 5.43E 01 |
| CENTER SEISMO METER |             | 2.97E 00 | 1.03E 00 | 4.45E-01 | 1.24E 00 | 3.40E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.43E 01 | 5.43E 01 |
| SIGNAL/2*NOISE      |             | 7.82E 01 | 7.82E 01 | 7.82E 01 | 7.82E 01 | 7.82E 01 | 7.82E 01 | 7.82E 01 | 7.82E 01 | 5.43E 01 | 5.43E 01 |
| CALIBRATION         | 2.8244E 01  |          |          |          |          |          |          |          |          | 5.43E 01 | 5.43E 01 |
| UNPHASED SUM        |             | 2.04E 00 | 4.45E-01 | 2.15E-01 | 2.15E-01 | 3.40E 00 | 4.40E 00 | 4.40E 00 | 4.40E 00 | 5.43E 01 | 5.43E 01 |
| SIGNAL/2*NOISE      |             | 1.60E 02 | 1.60E 02 | 1.60E 02 | 1.60E 02 | 1.60E 02 | 1.60E 02 | 1.60E 02 | 1.60E 02 | 5.43E 01 | 5.43E 01 |
| CALIBRATION         | 2.8575E 01  |          |          |          |          |          |          |          |          | 5.43E 01 | 5.43E 01 |



E3

| FROM (CPS) |  | TO (CPS) |  | 2.00 |  | 2.50 |  | 3.00 |  | 3.50 |  | 4.00 |  | 4.50 |  | 5.00 |  | 5.50 |  | 6.00 |  | 6.50 |  | 7.00 |  | 7.50 |  | 8.00 |  | 8.50 |  | 9.00 |  | 9.50 |  | 10.00 |  | 10.50 |  | 11.00 |  | 11.50 |  | 12.00 |  | 12.50 |  | 13.00 |  | 13.50 |  | 14.00 |  | 14.50 |  | 15.00 |  | 15.50 |  | 16.00 |  | 16.50 |  | 17.00 |  | 17.50 |  | 18.00 |  | 18.50 |  | 19.00 |  | 19.50 |  | 20.00 |  | 20.50 |  | 21.00 |  | 21.50 |  | 22.00 |  | 22.50 |  | 23.00 |  | 23.50 |  | 24.00 |  | 24.50 |  | 25.00 |  | 25.50 |  | 26.00 |  | 26.50 |  | 27.00 |  | 27.50 |  | 28.00 |  | 28.50 |  | 29.00 |  | 29.50 |  | 30.00 |  | 30.50 |  | 31.00 |  | 31.50 |  | 32.00 |  | 32.50 |  | 33.00 |  | 33.50 |  | 34.00 |  | 34.50 |  | 35.00 |  | 35.50 |  | 36.00 |  | 36.50 |  | 37.00 |  | 37.50 |  | 38.00 |  | 38.50 |  | 39.00 |  | 39.50 |  | 40.00 |  | 40.50 |  | 41.00 |  | 41.50 |  | 42.00 |  | 42.50 |  | 43.00 |  | 43.50 |  | 44.00 |  | 44.50 |  | 45.00 |  | 45.50 |  | 46.00 |  | 46.50 |  | 47.00 |  | 47.50 |  | 48.00 |  | 48.50 |  | 49.00 |  | 49.50 |  | 50.00 |  | 50.50 |  | 51.00 |  | 51.50 |  | 52.00 |  | 52.50 |  | 53.00 |  | 53.50 |  | 54.00 |  | 54.50 |  | 55.00 |  | 55.50 |  | 56.00 |  | 56.50 |  | 57.00 |  | 57.50 |  | 58.00 |  | 58.50 |  | 59.00 |  | 59.50 |  | 60.00 |  | 60.50 |  | 61.00 |  | 61.50 |  | 62.00 |  | 62.50 |  | 63.00 |  | 63.50 |  | 64.00 |  | 64.50 |  | 65.00 |  | 65.50 |  | 66.00 |  | 66.50 |  | 67.00 |  | 67.50 |  | 68.00 |  | 68.50 |  | 69.00 |  | 69.50 |  | 70.00 |  | 70.50 |  | 71.00 |  | 71.50 |  | 72.00 |  | 72.50 |  | 73.00 |  | 73.50 |  | 74.00 |  | 74.50 |  | 75.00 |  | 75.50 |  | 76.00 |  | 76.50 |  | 77.00 |  | 77.50 |  | 78.00 |  | 78.50 |  | 79.00 |  | 79.50 |  | 80.00 |  | 80.50 |  | 81.00 |  | 81.50 |  | 82.00 |  | 82.50 |  | 83.00 |  | 83.50 |  | 84.00 |  | 84.50 |  | 85.00 |  | 85.50 |  | 86.00 |  | 86.50 |  | 87.00 |  | 87.50 |  | 88.00 |  | 88.50 |  | 89.00 |  | 89.50 |  | 90.00 |  | 90.50 |  | 91.00 |  | 91.50 |  | 92.00 |  | 92.50 |  | 93.00 |  | 93.50 |  | 94.00 |  | 94.50 |  | 95.00 |  | 95.50 |  | 96.00 |  | 96.50 |  | 97.00 |  | 97.50 |  | 98.00 |  | 98.50 |  | 99.00 |  | 99.50 |  | 100.00 |  | 100.50 |  | 101.00 |  | 101.50 |  | 102.00 |  | 102.50 |  | 103.00 |  | 103.50 |  | 104.00 |  | 104.50 |  | 105.00 |  | 105.50 |  | 106.00 |  | 106.50 |  | 107.00 |  | 107.50 |  | 108.00 |  | 108.50 |  | 109.00 |  | 109.50 |  | 110.00 |  | 110.50 |  | 111.00 |  | 111.50 |  | 112.00 |  | 112.50 |  | 113.00 |  | 113.50 |  | 114.00 |  | 114.50 |  | 115.00 |  | 115.50 |  | 116.00 |  | 116.50 |  | 117.00 |  | 117.50 |  | 118.00 |  | 118.50 |  | 119.00 |  | 119.50 |  | 120.00 |  | 120.50 |  | 121.00 |  | 121.50 |  | 122.00 |  | 122.50 |  | 123.00 |  | 123.50 |  | 124.00 |  | 124.50 |  | 125.00 |  | 125.50 |  | 126.00 |  | 126.50 |  | 127.00 |  | 127.50 |  | 128.00 |  | 128.50 |  | 129.00 |  | 129.50 |  | 130.00 |  | 130.50 |  | 131.00 |  | 131.50 |  | 132.00 |  | 132.50 |  | 133.00 |  | 133.50 |  | 134.00 |  | 134.50 |  | 135.00 |  | 135.50 |  | 136.00 |  | 136.50 |  | 137.00 |  | 137.50 |  | 138.00 |  | 138.50 |  | 139.00 |  | 139.50 |  | 140.00 |  | 140.50 |  | 141.00 |  | 141.50 |  | 142.00 |  | 142.50 |  | 143.00 |  | 143.50 |  | 144.00 |  | 144.50 |  | 145.00 |  | 145.50 |  | 146.00 |  | 146.50 |  | 147.00 |  | 147.50 |  | 148.00 |  | 148.50 |  | 149.00 |  | 149.50 |  | 150.00 |  | 150.50 |  | 151.00 |  | 151.50 |  | 152.00 |  | 152.50 |  | 153.00 |  | 153.50 |  | 154.00 |  | 154.50 |  | 155.00 |  | 155.50 |  | 156.00 |  | 156.50 |  | 157.00 |  | 157.50 |  | 158.00 |  | 158.50 |  | 159.00 |  | 159.50 |  | 160.00 |  | 160.50 |  | 161.00 |  | 161.50 |  | 162.00 |  | 162.50 |  | 163.00 |  | 163.50 |  | 164.00 |  | 164.50 |  | 165.00 |  | 165.50 |  | 166.00 |  | 166.50 |  | 167.00 |  | 167.50 |  | 168.00 |  | 168.50 |  | 169.00 |  | 169.50 |  | 170.00 |  | 170.50 |  | 171.00 |  | 171.50 |  | 172.00 |  | 172.50 |  | 173.00 |  | 173.50 |  | 174.00 |  | 174.50 |  | 175.00 |  | 175.50 |  | 176.00 |  | 176.50 |  | 177.00 |  | 177.50 |  | 178.00 |  | 178.50 |  | 179.00 |  | 179.50 |  | 180.00 |  | 180.50 |  | 181.00 |  | 181.50 |  | 182.00 |  | 182.50 |  | 183.00 |  | 183.50 |  | 184.00 |  | 184.50 |  | 185.00 |  | 185.50 |  | 186.00 |  | 186.50 |  | 187.00 |  | 187.50 |  | 188.00 |  | 188.50 |  | 189.00 |  | 189.50 |  | 190.00 |  | 190.50 |  | 191.00 |  | 191.50 |  | 192.00 |  | 192.50 |  | 193.00 |  | 193.50 |  | 194.00 |  | 194.50 |  | 195.00 |  | 195.50 |  | 196.00 |  | 196.50 |  | 197.00 |  | 197.50 |  | 198.00 |  | 198.50 |  | 199.00 |  | 199.50 |  | 200.00 |  | 200.50 |  | 201.00 |  | 201.50 |  | 202.00 |  | 202.50 |  | 203.00 |  | 203.50 |  | 204.00 |  | 204.50 |  | 205.00 |  | 205.50 |  | 206.00 |  | 206.50 |  | 207.00 |  | 207.50 |  | 208.00 |  | 208.50 |  | 209.00 |  | 209.50 |  | 210.00 |  | 210.50 |  | 211.00 |  | 211.50 |  | 212.00 |  | 212.50 |  | 213.00 |  | 213.50 |  | 214.00 |  | 214.50 |  | 215.00 |  | 215.50 |  | 216.00 |  | 216.50 |  |
|------------|--|----------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
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E2

| FROM (CPS)              | .50         | .50      | 2.00     | 2.00     | .40      | 0        | RMS      | P-P      |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
| TO (CPS)                | 2.00        | 5.00     | 2.20     | 10.00    | NOISE    | SIG      |          |          |
| CHANNEL CALIBRATION     |             |          |          |          |          |          |          |          |
| 5594 21                 | 3.09636E 01 | 4.32E 00 | 1.43E 00 | 2.07E 00 | 1.74E 00 | 4.90E 00 | 4.90E 00 | 8.74E 00 |
| 5594 22                 | 3.18008E 01 | 2.33E 00 | 1.44E 00 | 2.16E 00 | 1.66E 00 | 3.88E 00 | 3.88E 00 | 9.94E 00 |
| 5594 23                 | 2.99742E 01 | 4.44E 00 | 1.33E 00 | 1.55E 00 | 1.85E 00 | 4.71E 00 | 4.71E 00 | 8.97E 00 |
| 5594 24                 | 2.96647E 01 | 3.07E 00 | 1.44E 00 | 1.51E 00 | 1.93E 00 | 4.37E 00 | 4.37E 00 | 9.55E 00 |
| 5594 25                 | 2.86769E 01 | 3.84E 00 | 1.32E 00 | 1.74E 00 | 1.65E 00 | 4.37E 00 | 4.37E 00 | 1.03E 01 |
| 5594 26                 | 2.73553E 01 | 3.66E 00 | 1.37E 00 | 2.18E 00 | 1.69E 00 | 4.63E 00 | 4.63E 00 | 8.66E 00 |
| AVERAGE                 | 3.88E 00    | 1.36E 00 | 1.92E 00 | 1.92E 00 | 1.74E 00 | 4.49E 00 | 4.49E 00 | 9.41E 00 |
| STD DEV                 | 5.47E-01    | 6.84E-02 | 4.00E-01 | 1.43E-01 | 1.43E-01 | 3.63E-01 | 3.63E-01 | 6.61E-01 |
| STD ERROR               | 1.33E-01    | 8.84E-02 | 2.40E-01 | 8.26E-02 | 8.26E-02 | 8.84E-02 | 8.84E-02 | 7.03E-02 |
| AVE SIG/2*NOISE         | 3.47E 00    |          |          |          | 2.71E 00 |          |          |          |
| CENTER SEISMOETER       | 3.70E 00    | 1.30E 00 | 8.26E-01 | 1.55E 00 | 1.55E 00 | 3.93E 00 | 3.93E 00 | 7.31E 00 |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| SIGNAL/2*NOISE          | 3.04E 00    |          |          |          | 2.31E 00 |          |          |          |
| CALIBRATION 2.77828E 01 |             |          |          |          |          |          |          |          |
| UNPHASED SUM            | 2.89E 00    | 6.09E-01 | 4.69E-01 | 6.46E-01 | 2.69E 00 | 2.69E 00 | 2.69E 00 | 3.70E 00 |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| SIGNAL/2*NOISE          | 3.04E 00    |          |          |          | 2.19E 00 |          |          |          |
| CALIBRATION 2.94463E 01 |             |          |          |          |          |          |          |          |

F2

| FROM (CPS)              | .50         | .50      | 2.00     | 2.00     | .40      | 0        | RMS      | P-P      |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
| TO (CPS)                | 2.00        | 5.00     | 2.20     | 10.00    | NOISE    | SIG      |          |          |
| CHANNEL CALIBRATION     |             |          |          |          |          |          |          |          |
| 5595 21                 | 2.70517E 01 | 3.37E 00 | 1.31E 00 | 9.44E-01 | 1.72E 00 | 3.56E 00 | 3.56E 00 | 4.84E 01 |
| 5595 22                 | 2.76653E 01 | 4.42E 00 | 1.46E 00 | 9.74E-01 | 2.11E 00 | 4.70E 00 | 4.71E 00 | 4.50E 01 |
| 5595 23                 | 3.02889E 01 | 4.32E 00 | 1.37E 00 | 6.19E-01 | 1.92E 00 | 4.40E 00 | 4.41E 00 | 5.76E 01 |
| 5595 24                 | 2.80378E 01 | 4.01E 00 | 1.32E 00 | 5.13E-01 | 1.72E 00 | 4.25E 00 | 4.25E 00 | 4.95E 01 |
| 5595 25                 | 2.93558E 01 | 4.41E 00 | 1.47E 00 | 6.09E-01 | 1.82E 00 | 4.84E 00 | 4.84E 00 | 5.55E 01 |
| 5595 26                 | 2.93736E 01 | 3.43E 00 | 1.24E 00 | 5.64E-01 | 1.55E 00 | 3.63E 00 | 3.63E 00 | 5.55E 01 |
| AVERAGE                 | 4.01E 00    | 1.40E 00 | 5.79E-01 | 1.82E 00 | 1.82E 00 | 4.22E 00 | 4.22E 00 | 5.18E 01 |
| STD DEV                 | 5.47E-01    | 1.34E-01 | 3.43E-02 | 2.00E-01 | 2.00E-01 | 5.43E-01 | 5.43E-01 | 4.95E 00 |
| STD ERROR               | 1.37E-01    | 8.71E-02 | 8.66E-02 | 1.10E-01 | 1.10E-01 | 1.23E-01 | 1.23E-01 | 7.53E-02 |
| AVE SIG/2*NOISE         | 1.84E 01    |          |          |          | 1.48E 01 |          |          |          |
| CENTER SEISMOETER       | 3.14E 00    | 1.13E 00 | 3.58E-01 | 1.44E 00 | 1.44E 00 | 3.33E 00 | 3.33E 00 | 4.16E 01 |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| SIGNAL/2*NOISE          | 1.85E 01    |          |          |          | 1.48E 01 |          |          |          |
| CALIBRATION 3.07739E 01 |             |          |          |          |          |          |          |          |
| UNPHASED SUM            | 3.06E 00    | 8.56E-01 | 1.43E-01 | 1.43E-01 | 1.07E 00 | 3.18E 00 | 3.18E 00 | 4.06E 01 |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| SIGNAL/2*NOISE          | 2.47E 01    |          |          |          | 1.90E 01 |          |          |          |
| CALIBRATION 2.95371E 01 |             |          |          |          |          |          |          |          |





| C4                  |             |          |          |          |          |          |          |          |          |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| FROM (CPS)          | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | 20.00    | 40.00    | P-P SIG  |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |          |
| 6104 21             | 2.77221E 01 | 5.33E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.33E 01 |
| 6104 22             | 2.77221E 01 | 4.44E 00 | 1.41E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 9.44E 01 |
| 6104 23             | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| 6104 24             | 2.77221E 01 | 4.44E 00 | 1.41E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 9.44E 01 |
| 6104 25             | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| 6104 26             | 2.77221E 01 | 4.44E 00 | 1.41E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 9.44E 01 |
| AVERAGE             |             | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| STD DEV             |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| STD ERROR           |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| AVE SIG/2*NOISE     |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| CENTER SEISMOGRAPH  |             |          |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| CALIBRATION         | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| CALIBRATION         | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| B4                  |             |          |          |          |          |          |          |          |          |
| FROM (CPS)          | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | 20.00    | 40.00    | P-P SIG  |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |          |
| 6107 21             | 2.77221E 01 | 4.44E 00 | 1.41E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 9.44E 01 |
| 6107 22             | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| 6107 23             | 2.77221E 01 | 4.44E 00 | 1.41E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 9.44E 01 |
| 6107 24             | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| 6107 25             | 2.77221E 01 | 4.44E 00 | 1.41E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 | 9.44E 01 |
| 6107 26             | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| AVERAGE             |             | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| STD DEV             |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| STD ERROR           |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| AVE SIG/2*NOISE     |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| CENTER SEISMOGRAPH  |             |          |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| CALIBRATION         | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      |             | 1.41E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |
| CALIBRATION         | 2.77221E 01 | 5.11E 00 | 1.41E 00 | 2.00E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 5.44E 00 | 9.44E 01 |





| D3                  |           |   |          |   |          |   |          |  |          | D2                  |           |  |          |                                |          |          |          |  |  |
|---------------------|-----------|---|----------|---|----------|---|----------|--|----------|---------------------|-----------|--|----------|--------------------------------|----------|----------|----------|--|--|
| FROM (CPS)          |           | P-P   |          | RMS   |          | P-P   |          | P-P  |          | FROM (CPS)          |           | P-P  |          | RMS                            |          | P-P      |          |  |  |
| TO (CPS)            |           | SIG   |          | NOISE   |          | SIG   |          | SIG  |          | TO (CPS)            |           | SIG  |          | NOISE                          |          | SIG      |          |  |  |
| CHANNEL CALIBRATION |           |   |          |   |          |   |          |  |          | CHANNEL CALIBRATION |           |  |          |                                |          |          |          |  |  |
| 5112 21             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 21             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 22             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 22             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 23             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 23             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 24             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 24             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 25             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 25             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 26             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 26             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| AVERAGE             |           |   |          |   |          |   |          |  |          | AVERAGE             |           |  |          |                                |          |          |          |  |  |
| STD DEV             |           |   |          |   |          |   |          |  |          | STD DEV             |           |  |          |                                |          |          |          |  |  |
| STD ERROR           |           |   |          |   |          |   |          |  |          | STD ERROR           |           |  |          |                                |          |          |          |  |  |
| AVE SIG/2*NOISE     |           |   |          |   |          |   |          |  |          | AVE SIG/2*NOISE     |           |  |          |                                |          |          |          |  |  |
| CENTER SEISMOGRAPH  |           |   |          |   |          |   |          |  |          | CENTER SEISMOGRAPH  |           |  |          |                                |          |          |          |  |  |
| SIGNIFICANCE        |           |   |          |   |          |   |          |  |          | SIGNIFICANCE        |           |  |          |                                |          |          |          |  |  |
| SIGNAL/2*NOISE      |           |   |          |   |          |   |          |  |          | SIGNAL/2*NOISE      |           |  |          |                                |          |          |          |  |  |
| CALIBRATION         |           |   |          |   |          |   |          |  |          | CALIBRATION         |           |  |          |                                |          |          |          |  |  |
| UNPHASED SUM        |           |   |          |   |          |   |          |  |          | UNPHASED SUM        |           |  |          |                                |          |          |          |  |  |
| SIGNIFICANCE        |           |   |          |   |          |   |          |  |          | SIGNIFICANCE        |           |  |          |                                |          |          |          |  |  |
| SIGNAL/2*NOISE      |           |   |          |   |          |   |          |  |          | SIGNAL/2*NOISE      |           |  |          |                                |          |          |          |  |  |
| CALIBRATION         |           |   |          |   |          |   |          |  |          | CALIBRATION         |           |  |          |                                |          |          |          |  |  |
| D4                  |           |   |          |   |          |   |          |  |          | D2                  |           |  |          |                                |          |          |          |  |  |
| FROM (CPS)          |           | P-P <td colspan="2">RMS<td colspan="2">P-P<td colspan="2">P-P<td colspan="2">FROM (CPS)</td><td colspan="2">P-P<td colspan="2">RMS<td colspan="2">P-P</td></td></td></td></td></td>   |          | RMS <td colspan="2">P-P<td colspan="2">P-P<td colspan="2">FROM (CPS)</td><td colspan="2">P-P<td colspan="2">RMS<td colspan="2">P-P</td></td></td></td></td>   |          | P-P <td colspan="2">P-P<td colspan="2">FROM (CPS)</td><td colspan="2">P-P<td colspan="2">RMS<td colspan="2">P-P</td></td></td></td> |          | P-P <td colspan="2">FROM (CPS)</td> <td colspan="2">P-P<td colspan="2">RMS<td colspan="2">P-P</td></td></td> |          | FROM (CPS)          |           | P-P <td colspan="2">RMS<td colspan="2">P-P</td></td>   |          | RMS <td colspan="2">P-P</td>   |          | P-P      |          |  |  |
| TO (CPS)            |           | SIG <td colspan="2">NOISE<td colspan="2">SIG<td colspan="2">SIG<td colspan="2">TO (CPS)</td><td colspan="2">SIG<td colspan="2">NOISE<td colspan="2">SIG</td></td></td></td></td></td> |          | NOISE <td colspan="2">SIG<td colspan="2">SIG<td colspan="2">TO (CPS)</td><td colspan="2">SIG<td colspan="2">NOISE<td colspan="2">SIG</td></td></td></td></td> |          | SIG <td colspan="2">SIG<td colspan="2">TO (CPS)</td><td colspan="2">SIG<td colspan="2">NOISE<td colspan="2">SIG</td></td></td></td> |          | SIG <td colspan="2">TO (CPS)</td> <td colspan="2">SIG<td colspan="2">NOISE<td colspan="2">SIG</td></td></td> |          | TO (CPS)            |           | SIG <td colspan="2">NOISE<td colspan="2">SIG</td></td> |          | NOISE <td colspan="2">SIG</td> |          | SIG      |          |  |  |
| CHANNEL CALIBRATION |           |   |          |   |          |   |          |  |          | CHANNEL CALIBRATION |           |  |          |                                |          |          |          |  |  |
| 5112 21             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 21             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 22             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 22             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 23             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 23             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 24             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 24             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 25             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 25             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| 5112 26             | 2.319E-01 | 1.95E-01  | 4.35E-01 | 4.35E-01  | 4.35E-01 | 2.15E-02  | 1.95E-01 | 4.35E-01   | 4.35E-01 | 5112 26             | 2.319E-01 | 1.95E-01   | 4.35E-01 | 4.35E-01                       | 4.35E-01 | 2.15E-02 | 1.95E-01 |  |  |
| AVERAGE             |           |   |          |   |          |   |          |  |          | AVERAGE             |           |  |          |                                |          |          |          |  |  |
| STD DEV             |           |   |          |   |          |   |          |  |          | STD DEV             |           |  |          |                                |          |          |          |  |  |
| STD ERROR           |           |   |          |   |          |   |          |  |          | STD ERROR           |           |  |          |                                |          |          |          |  |  |
| AVE SIG/2*NOISE     |           |   |          |   |          |   |          |  |          | AVE SIG/2*NOISE     |           |  |          |                                |          |          |          |  |  |
| CENTER SEISMOGRAPH  |           |   |          |   |          |   |          |  |          | CENTER SEISMOGRAPH  |           |  |          |                                |          |          |          |  |  |
| SIGNIFICANCE        |           |   |          |   |          |   |          |  |          | SIGNIFICANCE        |           |  |          |                                |          |          |          |  |  |
| SIGNAL/2*NOISE      |           |   |          |   |          |   |          |  |          | SIGNAL/2*NOISE      |           |  |          |                                |          |          |          |  |  |
| CALIBRATION         |           |   |          |   |          |   |          |  |          | CALIBRATION         |           |  |          |                                |          |          |          |  |  |
| UNPHASED SUM        |           |   |          |   |          |   |          |  |          | UNPHASED SUM        |           |  |          |                                |          |          |          |  |  |
| SIGNIFICANCE        |           |   |          |   |          |   |          |  |          | SIGNIFICANCE        |           |  |          |                                |          |          |          |  |  |
| SIGNAL/2*NOISE      |           |   |          |   |          |   |          |  |          | SIGNAL/2*NOISE      |           |  |          |                                |          |          |          |  |  |
| CALIBRATION         |           |   |          |   |          |   |          |  |          | CALIBRATION         |           |  |          |                                |          |          |          |  |  |













| C1         |          | C2         |          | B2         |          |
|------------|----------|------------|----------|------------|----------|
| FROM (CPS) | TO (CPS) | FROM (CPS) | TO (CPS) | FROM (CPS) | TO (CPS) |
| 419E 00    | 1.1E 00  | 419E 00    | 1.1E 00  | 419E 00    | 1.1E 00  |
| 420E 00    | 1.2E 00  | 420E 00    | 1.2E 00  | 420E 00    | 1.2E 00  |
| 421E 00    | 1.3E 00  | 421E 00    | 1.3E 00  | 421E 00    | 1.3E 00  |
| 422E 00    | 1.4E 00  | 422E 00    | 1.4E 00  | 422E 00    | 1.4E 00  |
| 423E 00    | 1.5E 00  | 423E 00    | 1.5E 00  | 423E 00    | 1.5E 00  |
| 424E 00    | 1.6E 00  | 424E 00    | 1.6E 00  | 424E 00    | 1.6E 00  |
| 425E 00    | 1.7E 00  | 425E 00    | 1.7E 00  | 425E 00    | 1.7E 00  |
| 426E 00    | 1.8E 00  | 426E 00    | 1.8E 00  | 426E 00    | 1.8E 00  |
| 427E 00    | 1.9E 00  | 427E 00    | 1.9E 00  | 427E 00    | 1.9E 00  |
| 428E 00    | 2.0E 00  | 428E 00    | 2.0E 00  | 428E 00    | 2.0E 00  |
| 429E 00    | 2.1E 00  | 429E 00    | 2.1E 00  | 429E 00    | 2.1E 00  |
| 430E 00    | 2.2E 00  | 430E 00    | 2.2E 00  | 430E 00    | 2.2E 00  |
| 431E 00    | 2.3E 00  | 431E 00    | 2.3E 00  | 431E 00    | 2.3E 00  |
| 432E 00    | 2.4E 00  | 432E 00    | 2.4E 00  | 432E 00    | 2.4E 00  |
| 433E 00    | 2.5E 00  | 433E 00    | 2.5E 00  | 433E 00    | 2.5E 00  |
| 434E 00    | 2.6E 00  | 434E 00    | 2.6E 00  | 434E 00    | 2.6E 00  |
| 435E 00    | 2.7E 00  | 435E 00    | 2.7E 00  | 435E 00    | 2.7E 00  |
| 436E 00    | 2.8E 00  | 436E 00    | 2.8E 00  | 436E 00    | 2.8E 00  |
| 437E 00    | 2.9E 00  | 437E 00    | 2.9E 00  | 437E 00    | 2.9E 00  |
| 438E 00    | 3.0E 00  | 438E 00    | 3.0E 00  | 438E 00    | 3.0E 00  |
| 439E 00    | 3.1E 00  | 439E 00    | 3.1E 00  | 439E 00    | 3.1E 00  |
| 440E 00    | 3.2E 00  | 440E 00    | 3.2E 00  | 440E 00    | 3.2E 00  |
| 441E 00    | 3.3E 00  | 441E 00    | 3.3E 00  | 441E 00    | 3.3E 00  |
| 442E 00    | 3.4E 00  | 442E 00    | 3.4E 00  | 442E 00    | 3.4E 00  |
| 443E 00    | 3.5E 00  | 443E 00    | 3.5E 00  | 443E 00    | 3.5E 00  |
| 444E 00    | 3.6E 00  | 444E 00    | 3.6E 00  | 444E 00    | 3.6E 00  |
| 445E 00    | 3.7E 00  | 445E 00    | 3.7E 00  | 445E 00    | 3.7E 00  |
| 446E 00    | 3.8E 00  | 446E 00    | 3.8E 00  | 446E 00    | 3.8E 00  |
| 447E 00    | 3.9E 00  | 447E 00    | 3.9E 00  | 447E 00    | 3.9E 00  |
| 448E 00    | 4.0E 00  | 448E 00    | 4.0E 00  | 448E 00    | 4.0E 00  |
| 449E 00    | 4.1E 00  | 449E 00    | 4.1E 00  | 449E 00    | 4.1E 00  |
| 450E 00    | 4.2E 00  | 450E 00    | 4.2E 00  | 450E 00    | 4.2E 00  |
| 451E 00    | 4.3E 00  | 451E 00    | 4.3E 00  | 451E 00    | 4.3E 00  |
| 452E 00    | 4.4E 00  | 452E 00    | 4.4E 00  | 452E 00    | 4.4E 00  |
| 453E 00    | 4.5E 00  | 453E 00    | 4.5E 00  | 453E 00    | 4.5E 00  |
| 454E 00    | 4.6E 00  | 454E 00    | 4.6E 00  | 454E 00    | 4.6E 00  |
| 455E 00    | 4.7E 00  | 455E 00    | 4.7E 00  | 455E 00    | 4.7E 00  |
| 456E 00    | 4.8E 00  | 456E 00    | 4.8E 00  | 456E 00    | 4.8E 00  |
| 457E 00    | 4.9E 00  | 457E 00    | 4.9E 00  | 457E 00    | 4.9E 00  |
| 458E 00    | 5.0E 00  | 458E 00    | 5.0E 00  | 458E 00    | 5.0E 00  |
| 459E 00    | 5.1E 00  | 459E 00    | 5.1E 00  | 459E 00    | 5.1E 00  |
| 460E 00    | 5.2E 00  | 460E 00    | 5.2E 00  | 460E 00    | 5.2E 00  |
| 461E 00    | 5.3E 00  | 461E 00    | 5.3E 00  | 461E 00    | 5.3E 00  |
| 462E 00    | 5.4E 00  | 462E 00    | 5.4E 00  | 462E 00    | 5.4E 00  |
| 463E 00    | 5.5E 00  | 463E 00    | 5.5E 00  | 463E 00    | 5.5E 00  |
| 464E 00    | 5.6E 00  | 464E 00    | 5.6E 00  | 464E 00    | 5.6E 00  |
| 465E 00    | 5.7E 00  | 465E 00    | 5.7E 00  | 465E 0     |          |









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| F3 |         | FROM (CPS)              | 0   | 1.50     | 2.00     | 1.40     | 0        | 8.5      | 9.5      |
|----|---------|-------------------------|-----|----------|----------|----------|----------|----------|----------|
|    |         | TO (CPS)                | .50 | 2.50     | 3.00     | 3.20     | 10.00    | NOISE    | 9.6      |
|    |         | CHANNEL                 |     |          |          |          |          |          |          |
|    |         | CALIBRATION             |     |          |          |          |          |          |          |
|    | 6313 31 | 2.91619                 | 01  | 1.04E 00 | 5.14E-01 | 1.52E 00 | 2.86E 00 | 2.86E 00 | 3.5E 01  |
|    | 6313 32 | 2.91619                 | 01  | 2.78E 00 | 9.34E-01 | 1.52E 00 | 3.02E 00 | 3.02E 00 | 3.5E 01  |
|    | 6313 33 | 2.58536                 | 01  | 3.28E 00 | 9.40E-01 | 1.54E 00 | 3.44E 00 | 3.44E 00 | 3.7E 01  |
|    | 6313 34 | 2.74008                 | 01  | 2.60E 00 | 7.44E-01 | 1.44E 00 | 2.75E 00 | 2.75E 00 | 3.0E 01  |
|    | 6313 35 | 2.6122E                 | 01  | 3.56E 00 | 9.84E-01 | 1.71E 00 | 3.56E 00 | 3.56E 00 | 3.5E 01  |
|    | 6313 36 | 2.65266                 | 01  | 3.78E 00 | 1.22E 00 | 1.69E 00 | 4.00E 00 | 4.01E 00 | 3.8E 01  |
|    |         | AVERAGE                 |     | 3.11E 00 | 8.71E-01 | 1.46E 00 | 3.71E 00 | 3.71E 00 | 3.63E 01 |
|    |         | STD DEV                 |     | 4.78E-01 | 8.69E-02 | 1.41E-01 | 4.77E-01 | 4.78E-01 | 3.49E 00 |
|    |         | STD ERROR               |     | 1.55E-01 | 1.66E-01 | 1.33E-01 | 1.44E-01 | 1.44E-01 | 3.09E-02 |
|    |         | AVE 516/8/NOISE         |     | 1.87E 01 |          | 1.95E 01 |          |          |          |
|    |         | CENTER SEISMOMETER      |     | 3.22E 00 | 9.24E-01 | 3.16E-01 | 3.35E 00 | 3.35E 00 | 2.43E 01 |
|    |         | SIGNIFICANCE            |     | SAME     | SAME     | LOW      | SAME     | SAME     | LOW      |
|    |         | SIGNAL/2*NOISE          |     | 1.31E 01 |          | 8.23E 00 |          |          |          |
|    |         | CALIBRATION 2.78028E 01 |     |          |          |          |          |          |          |
|    |         | UNPHASED SUM            |     | 2.40E 00 | 5.80E-01 | 1.27E-01 | 2.47E 00 | 2.47E 00 | 1.78E 01 |
|    |         | SIGNIFICANCE            |     | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
|    |         | SIGNAL/2*NOISE          |     | 1.53E 01 |          | 1.19E 01 |          |          |          |
|    |         | CALIBRATION 2.77142E 01 |     |          |          |          |          |          |          |

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| C4                 |             |          |          |          |           |           |          |          |          |
|--------------------|-------------|----------|----------|----------|-----------|-----------|----------|----------|----------|
| FROM (CPS)         | TO (CPS)    | .50      | 2.00     | 5.00     | 10.00     | RMS NOISE | P-P SIG  | 0        | P-P SIG  |
| CHANNEL            | CALIBRATION |          |          |          |           |           |          |          |          |
| 6315 21            | 3.07304E 01 | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| 6315 22            | 3.07304E 01 | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| 6315 23            | 3.07304E 01 | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| 6315 24            | 3.07304E 01 | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| 6315 25            | 3.07304E 01 | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| 6315 26            | 3.07304E 01 | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| AVERAGE            |             | 3.58E 00 | 1.02E 00 | 5.98E-01 | 1.135E 00 | 3.77E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| STD DEV            |             | 4.29E-01 | 6.85E-02 | 3.29E-01 | 1.27E-01  | 3.41E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| STD ERROR          |             | 1.35E-01 | 6.45E-02 | 3.44E-01 | 1.55E-01  | 1.07E-01  | 1.84E 00 | 4.29E-01 | 6.85E-02 |
| AVE SIG/2*NOISE    |             | 5.04E 00 |          |          | 4.50E 00  |           |          | 1.27E-01 | 1.55E-01 |
| CENTER SEISMOMETER |             | 3.18E 00 | 9.40E-01 | 2.94E-01 | 1.26E 00  | 3.33E 00  | 1.05E 01 | 3.88E 00 | 9.06E-01 |
| SIGNAL/2*NOISE     |             | 5.56E 00 |          |          | 4.15E 00  |           |          | 1.49E 01 |          |
| CALIBRATION        | 3.42493E 01 |          |          |          |           |           |          | 1.07E 01 |          |
| UNPHASED SUM       |             | 2.49E 00 | 6.85E-01 | 2.58E-01 | 7.81E-01  | 2.60E 00  | 7.03E 00 | 3.01E 00 | 7.07E-01 |
| SIGNAL/2*NOISE     |             | 5.15E 00 |          |          | 4.50E 00  |           |          | 1.24E 01 |          |
| CALIBRATION        | 3.06010E 01 |          |          |          |           |           |          | 1.72E-01 | 1.72E-01 |
| UNPHASED SUM       |             | 2.49E 00 | 6.85E-01 | 2.58E-01 | 7.81E-01  | 2.60E 00  | 7.03E 00 | 3.01E 00 | 7.07E-01 |
| SIGNAL/2*NOISE     |             | 5.15E 00 |          |          | 4.50E 00  |           |          | 1.24E 01 |          |
| CALIBRATION        | 3.06010E 01 |          |          |          |           |           |          | 1.72E-01 | 1.72E-01 |
| B4                 |             |          |          |          |           |           |          |          |          |
| FROM (CPS)         | TO (CPS)    | .50      | 2.00     | 5.00     | 10.00     | RMS NOISE | P-P SIG  | 0        | P-P SIG  |
| CHANNEL            | CALIBRATION |          |          |          |           |           |          |          |          |
| 6316 21            | 3.93310E 01 | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| 6316 22            | 3.93310E 01 | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| 6316 23            | 3.93310E 01 | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| 6316 24            | 3.93310E 01 | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| 6316 25            | 3.93310E 01 | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| 6316 26            | 3.93310E 01 | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| AVERAGE            |             | 2.73E 00 | 1.12E 00 | 3.34E-01 | 1.175E 00 | 2.96E 00  | 2.28E 01 | 3.63E 00 | 4.13E 00 |
| STD DEV            |             | 4.43E-01 | 6.85E-02 | 3.29E-01 | 1.27E-01  | 3.41E 00  | 1.20E 01 | 4.83E 00 | 5.03E 00 |
| STD ERROR          |             | 1.35E-01 | 6.45E-02 | 3.44E-01 | 1.55E-01  | 1.07E-01  | 1.84E 00 | 4.29E-01 | 6.85E-02 |
| AVE SIG/2*NOISE    |             | 5.04E 00 |          |          | 4.50E 00  |           |          | 1.27E-01 | 1.55E-01 |
| CENTER SEISMOMETER |             | 2.67E 00 | 1.30E 00 | 1.90E-01 | 1.94E 00  | 2.93E 00  | 2.13E 01 | 4.13E 00 | 1.14E 00 |
| SIGNAL/2*NOISE     |             | 5.15E 00 |          |          | 4.50E 00  |           |          | 1.49E 01 |          |
| CALIBRATION        | 2.88447E 01 |          |          |          |           |           |          | 1.41E 01 | 1.41E 01 |
| UNPHASED SUM       |             | 1.98E 00 | 6.15E-01 | 1.28E-01 | 1.28E 00  | 2.12E 00  | 1.09E 01 | 2.66E 00 | 6.47E-01 |
| SIGNAL/2*NOISE     |             | 6.66E 00 |          |          | 4.35E 00  |           |          | 1.14E 01 |          |
| CALIBRATION        | 2.93531E 01 |          |          |          |           |           |          | 2.22E-01 | 2.22E-01 |



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E2

FROM (CPS)  
TO (CPS)

|                        | 0        | 50       | 2.00     | 5.00     | 2.20     | 10.00    | RMS      | P-P |
|------------------------|----------|----------|----------|----------|----------|----------|----------|-----|
|                        | 0        | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | SIG      |     |
| CHANNEL CALIBRATION    |          |          |          |          |          |          |          |     |
| 6331 21                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.46E 01 |     |
| 6331 22                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.29E 01 |     |
| 6331 23                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.60E 01 |     |
| 6331 24                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 3.02E 01 |     |
| 6331 25                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.48E 01 |     |
| 6331 26                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.79E 01 |     |
| AVERAGE                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.69E 01 |     |
| STD DEV                | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 2.79E 01 |     |
| STD ERROR              | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 1.03E 01 |     |
| AVE SIG/2*NOISE        | 3.02E 00 | 1.22E 00 | 1.01E 00 | 1.62E 00 | 4.22E 00 | 4.22E 00 | 1.03E 01 |     |
| CENTER SEISMOMETER     | 3.02E 00 | 1.01E 00 | 1.01E 00 | 1.01E 00 | 3.02E 00 | 3.02E 00 | 2.73E 01 |     |
| SIGNIFICANCE           | 3.02E 00 | 1.01E 00 | 1.01E 00 | 1.01E 00 | 3.02E 00 | 3.02E 00 | 3.02E 01 |     |
| SIGNAL/2*NOISE         | 3.02E 00 | 1.01E 00 | 1.01E 00 | 1.01E 00 | 3.02E 00 | 3.02E 00 | 3.02E 01 |     |
| CALIBRATION 2.9463E 01 | 3.02E 00 | 1.01E 00 | 1.01E 00 | 1.01E 00 | 3.02E 00 | 3.02E 00 | 3.02E 01 |     |

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.9463E 01

F2

FROM (CPS)  
TO (CPS)

|                        | 0        | 50       | 2.00     | 5.00     | 2.20     | 10.00    | RMS      | P-P |
|------------------------|----------|----------|----------|----------|----------|----------|----------|-----|
|                        | 0        | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | SIG      |     |
| CHANNEL CALIBRATION    |          |          |          |          |          |          |          |     |
| 6332 21                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 2.57E 01 |     |
| 6332 22                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 2.55E 01 |     |
| 6332 23                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 3.02E 01 |     |
| 6332 24                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 2.36E 01 |     |
| 6332 25                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 3.17E 01 |     |
| 6332 26                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 3.09E 01 |     |
| AVERAGE                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 2.79E 01 |     |
| STD DEV                | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 2.79E 01 |     |
| STD ERROR              | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 1.03E 01 |     |
| AVE SIG/2*NOISE        | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 1.03E 01 |     |
| CENTER SEISMOMETER     | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 1.79E 01 |     |
| SIGNIFICANCE           | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 1.79E 01 |     |
| SIGNAL/2*NOISE         | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 1.79E 01 |     |
| CALIBRATION 3.0773E 01 | 3.02E 00 | 1.02E 00 | 1.02E 00 | 1.02E 00 | 3.02E 00 | 3.02E 00 | 1.79E 01 |     |

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.9537E 01



| FROM (CPS)        | TO (CPS)    | 0        | .50      | 2.00     | .40      | 0        | RMS      | P-R      |
|-------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
|                   |             | 2.20     | 5.00     | 2.20     | 10.00    | 1        | NOISE    | SIG      |
| CHANNEL           | CALIBRATION |          |          |          |          |          |          |          |
| 5332 21           | 2.642E 01   | 1.7E 00  | 7.6E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 22           | 2.614E 01   | 1.6E 00  | 7.4E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 23           | 2.586E 01   | 1.6E 00  | 7.2E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 24           | 2.558E 01   | 1.6E 00  | 7.0E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 25           | 2.530E 01   | 1.6E 00  | 6.8E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 26           | 2.502E 01   | 1.6E 00  | 6.6E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 27           | 2.474E 01   | 1.6E 00  | 6.4E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 28           | 2.446E 01   | 1.6E 00  | 6.2E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 29           | 2.418E 01   | 1.6E 00  | 6.0E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| 5332 30           | 2.390E 01   | 1.6E 00  | 5.8E 01  | 1.6E 00  | 4.2E 00  | 4.2E 00  | 4.2E 00  | 2.01E 01 |
| AVERAGE           |             | 4.0E 00  | 1.9E 00  | 6.2E 01  | 1.6E 00  | 5.0E 00  | 5.0E 00  | 2.04E 01 |
| STD DEV           |             | 1.9E 01  | 1.2E 01  | 1.5E 01  | 1.2E 01  | 5.0E 01  | 5.0E 01  | 2.04E 00 |
| TRD ERROR         |             | 1.6E 01  | 9.8E 00  | 1.2E 01  | 1.2E 01  | 1.2E 01  | 1.2E 01  | 2.04E 00 |
| AVE SIG/NOISE     |             | 9.8E 00  | 6.6E 01  | 5.0E 00  | 5.0E 00  | 1.2E 01  | 1.2E 01  | 2.04E 02 |
| CENTER SEMIOMETER |             | 5.1E 00  | 3.5E 01  | 1.9E 01  | 1.9E 00  | 5.0E 00  | 5.0E 00  | 1.73E 01 |
| SIGNIFICANCE      |             | 2.0E 00  | 7.0E 00  | 4.0E 00  | 4.0E 00  | 2.0E 00  | 2.0E 00  | 1.73E 01 |
| SIGNAL/2NOISE     |             | 7.0E 00  | 3.0E 00  | 4.0E 00  | 4.0E 00  | 2.0E 00  | 2.0E 00  | 1.73E 01 |
| CALIBRATION       | 2.69502E 01 |          |          |          |          |          |          |          |
| UNPHASED SUM      |             | 3.85E 00 | 7.0E 01  | 1.20E 00 | 3.01E 00 | 3.91E 00 | 3.91E 00 | 2.12E 01 |
| SIGNIFICANCE      |             | 1.0E 00  | 3.0E 00  | 1.0E 00  | 1.0E 00  | 1.0E 00  | 1.0E 00  | 2.12E 01 |
| SIGNAL/2NOISE     |             | 1.44E 01 | 1.44E 01 | 6.82E 00 | 6.82E 00 | 6.82E 00 | 6.82E 00 | 2.12E 01 |
| CALIBRATION       | 2.76333E 01 |          |          |          |          |          |          |          |

[illegible][illegible]

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| CI                  |            | FROM (CPS) |          | TO (CPS) |          | RMS      |          | P-P      |          | SIG      |          |
|---------------------|------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                     |            | .50        | 2.00     | .50      | 2.00     | 10.00    | NOISE    | 1.40     | 2.00     | 10.00    | NOISE    |
| CHANNEL CALIBRATION |            |            |          |          |          |          |          |          |          |          |          |
| 3340 21             | 3.1093E 01 | 4.40E 00   | 1.37E 00 | 1.44E 00 | 4.66E 00 | 4.66E 00 | 5.48E 01 | 5.48E 01 | 5.48E 01 | 5.48E 01 | 5.48E 01 |
| 3340 22             | 2.8159E 01 | 5.34E 00   | 1.85E 00 | 2.00E 00 | 5.59E 00 | 5.59E 00 | 5.52E 01 | 5.52E 01 | 5.52E 01 | 5.52E 01 |          |
| 3340 23             | 2.6115E 01 | 4.89E 00   | 1.49E 00 | 1.77E 00 | 5.07E 00 | 5.07E 00 | 4.71E 01 | 4.71E 01 | 4.71E 01 | 4.71E 01 |          |
| 3340 24             | 2.3551E 01 | 4.35E 00   | 1.14E 00 | 1.47E 00 | 4.52E 00 | 4.52E 00 | 4.25E 01 | 4.25E 01 | 4.25E 01 | 4.25E 01 |          |
| 3340 25             | 2.6553E 01 | 5.18E 00   | 1.40E 00 | 2.04E 00 | 5.44E 00 | 5.44E 00 | 5.91E 01 | 5.91E 01 | 5.91E 01 | 5.91E 01 |          |
| 3340 26             | 2.9556E 01 | 4.24E 00   | 1.31E 00 | 2.00E 00 | 4.81E 00 | 4.81E 00 | 6.15E 01 | 6.15E 01 | 6.15E 01 | 6.15E 01 |          |
| AVERAGE             |            |            |          |          |          |          |          |          |          |          |          |
| 3340 27             | 4.73E 00   | 1.34E 00   | 1.09E 00 | 1.09E 00 | 4.92E 00 | 4.92E 00 | 5.25E 01 | 5.25E 01 | 5.25E 01 | 5.25E 01 |          |
| 3340 28             | 4.67E 00   | 1.34E 00   | 1.09E 00 | 1.09E 00 | 4.92E 00 | 4.92E 00 | 5.25E 01 | 5.25E 01 | 5.25E 01 | 5.25E 01 |          |
| 3340 29             | 4.67E 00   | 1.34E 00   | 1.09E 00 | 1.09E 00 | 4.92E 00 | 4.92E 00 | 5.25E 01 | 5.25E 01 | 5.25E 01 | 5.25E 01 |          |
| 3340 30             | 4.67E 00   | 1.34E 00   | 1.09E 00 | 1.09E 00 | 4.92E 00 | 4.92E 00 | 5.25E 01 | 5.25E 01 | 5.25E 01 | 5.25E 01 |          |
| STD DEV             |            |            |          |          |          |          |          |          |          |          |          |
| 3340 31             | 1.95E 01   | 1.95E 01   | 1.95E 01 | 1.95E 01 | 1.95E 01 | 1.95E 01 | 1.95E 01 | 1.95E 01 | 1.95E 01 | 1.95E 01 |          |
| AVE SIG/2*NOISE     |            |            |          |          |          |          |          |          |          |          |          |
| 3340 32             | 5.44E 00   | 1.53E 00   | 2.44E 00 | 2.44E 00 | 5.69E 00 | 5.69E 00 | 6.15E 01 | 6.15E 01 | 6.15E 01 | 6.15E 01 |          |
| CENTER SEISMOGRAPH  |            |            |          |          |          |          |          |          |          |          |          |
| 3340 33             | 1.69E 01   | 1.69E 01   | 1.69E 01 | 1.69E 01 | 1.69E 01 | 1.69E 01 | 1.69E 01 | 1.69E 01 | 1.69E 01 | 1.69E 01 |          |
| SIGNAL/2*NOISE      |            |            |          |          |          |          |          |          |          |          |          |
| 3340 34             | 2.9983E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| UNPHASED SUM        |            |            |          |          |          |          |          |          |          |          |          |
| 3340 35             | 2.9527E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| SIGNAL/2*NOISE      |            |            |          |          |          |          |          |          |          |          |          |
| 3340 36             | 2.9527E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| CALIBRATION         |            |            |          |          |          |          |          |          |          |          |          |
| 3340 37             | 2.9527E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| UNPHASED SUM        |            |            |          |          |          |          |          |          |          |          |          |
| 3340 38             | 2.9527E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| SIGNAL/2*NOISE      |            |            |          |          |          |          |          |          |          |          |          |
| 3340 39             | 2.9527E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| CALIBRATION         |            |            |          |          |          |          |          |          |          |          |          |
| 3340 40             | 2.9527E 01 | 3.23E 00   | 7.82E 01 | 1.44E 00 | 3.32E 00 | 3.32E 00 | 3.32E 01 | 3.32E 01 | 3.32E 01 | 3.32E 01 |          |
| AVERAGE             |            |            |          |          |          |          |          |          |          |          |          |
| 3340 41             | 3.29E 00   | 9.10E 01   | 3.44E 01 | 1.09E 00 | 5.36E 00 | 5.36E 00 | 5.36E 01 | 5.36E 01 | 5.36E 01 | 5.36E 01 |          |
| 3340 42             | 7.30E 01   | 1.07E 01   | 1.07E 01 | 1.07E 01 | 7.30E 01 | 7.30E 01 | 7.30E 01 | 7.30E 01 | 7.30E 01 | 7.30E 01 |          |
| 3340 43             | 1.00E 01   | 1.00E 01   | 1.00E 01 |          |          |          |          |          |          |          |          |

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SIGNIFICANCE

SIGNAL / 24VDC  
CALIBRATION

EMPHASIS

SYNOPSIS

CALIBRATION

23

FROM (CPS) (SPS) (SPS) (SPS)

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|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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| 0.2 | 0.2 |
| 0.3 | 0.3 |
| 0.4 | 0.4 |
| 0.5 | 0.5 |
| 0.6 | 0.6 |
| 0.7 | 0.7 |
| 0.8 | 0.8 |
| 0.9 | 0.9 |
| 1.0 | 1.0 |

5501 26

M. V. K. A. S. S.

STD ERROR

2002/03/16

# SEVEN SIGNS

SIGNAL/IMAGE

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SIGNIFICANCE

ORIGINAL/27NOV  
CALIBRATION



F3

FROM (CPS) .50 2.00 4.00 10.00 RMS P-P  
TO (CPS) .50 2.00 4.00 10.00 NOISE SIG

## CHANNEL CALIBRATION

5897 21 2.86430E 01 3.35E 00 1.01E 00 4.52E-01 1.41E 00 3.49E 00 3.49E 00 1.52E 02  
5897 22 2.75025E 01 3.69E 00 1.41E 00 9.02E-01 1.41E 00 3.95E 00 3.95E 00 1.60E 02  
5897 23 2.52394E 01 4.20E 00 1.38E 00 6.82E-01 1.38E 00 4.37E 00 4.37E 00 1.71E 02  
5897 24 2.71397E 01 3.15E 00 9.42E-01 1.23E 00 3.33E 00 3.32E 00 3.32E 00 1.60E 02  
5897 25 2.66728E 01 4.02E 00 1.06E 00 5.82E-01 1.06E 00 4.17E 00 4.17E 00 1.62E 02  
5897 26 2.80861E 01 4.38E 00 1.12E 00 5.08E-01 1.06E 00 4.51E 00 4.51E 00 1.66E 02  
AVERAGE 3.80E 00 1.07E 00 6.06E-01 1.49E 00 3.97E 00 3.97E 00 1.62E 02  
STD DEV 4.89E-01 8.66E-02 1.89E-01 2.04E-01 4.79E-01 4.79E-01 6.44E 00  
STD ERROR 1.28E-01 8.11E-02 2.60E-01 1.34E-01 1.21E-01 1.21E-01 3.98E-02  
AVE SIG/2\*NOISE 7.84E 01 5.42E 01  
CENTER SEISMOMETER 3.97E 00 1.02E 00 3.02E-01 1.43E 00 4.08E 00 4.08E 00 1.48E 02  
SIGNIFICANCE SAME LOW SAME  
SIGNAL/2\*NOISE 7.26E 01 5.15E 01  
CALIBRATION 2.65664E 01

## UNPHASED SUM

2.70E 00 7.32E-01 1.47E-01 9.20E-01 2.76E 00 2.76E 00 1.54E 02  
SIGNIFICANCE LOW LOW LOW  
SIGNAL/2\*NOISE 1.07E 02 8.39E 01  
CALIBRATION 2.74823E 01

B1

FROM (CPS) .50 2.00 4.00 10.00 RMS P-P  
TO (CPS) .50 2.00 4.00 10.00 NOISE SIG

## CHANNEL CALIBRATION

5898 21 2.67831E 01 4.17E 00 1.34E 00 4.09E-01 1.62E 00 4.39E 00 4.39E 00 1.23E 02  
5898 22 2.81872E 01 3.71E 00 1.10E 00 4.45E-01 1.46E 00 3.91E 00 3.91E 00 1.13E 02  
5898 23 2.66519E 01 2.86E 00 1.21E 00 5.16E-01 1.46E 00 3.10E 00 3.10E 00 1.01E 02  
5898 24 2.48433E 01 4.64E 00 1.84E 00 8.33E-01 2.24E 00 5.07E 00 5.07E 00 1.23E 02  
5898 25 2.68883E 01 3.80E 00 1.42E 00 3.32E-01 1.66E 00 4.06E 00 4.06E 00 1.07E 02  
5898 26 2.72201E 01 3.83E 00 1.14E 00 4.30E-01 1.66E 00 4.02E 00 4.02E 00 1.09E 02  
AVERAGE 4.19E 00 1.26E 00 4.49E-01 1.67E 00 4.39E 00 4.39E 00 1.62E 02  
STD DEV 4.62E 00 1.30E 00 4.46E-01 1.56E 00 4.82E 00 4.82E 00 1.17E 02  
STD ERROR 3.56E 00 1.47E 00 5.72E-01 1.70E 00 3.85E 00 3.85E 00 1.10E 02  
AVE SIG/2\*NOISE 3.83E 00 1.63E 00 6.13E-01 1.84E 00 4.18E 00 4.18E 00 1.06E 02  
CENTER SEISMOMETER 3.90E 00 1.43E 00 6.15E-01 1.55E 00 4.26E 00 4.26E 00 1.00E 02  
SIGNIFICANCE 3.35E 00 1.23E 00 5.08E-01 1.51E 00 3.65E 00 3.65E 00 1.22E 02  
SIGNAL/2\*NOISE 4.43E 00 1.66E 00 4.66E-01 1.69E 00 4.60E 00 4.60E 00 1.46E 02  
CALIBRATION 2.83396E 01 2.83E 00 1.17E 00 4.73E-01 1.41E 00 3.14E 00 3.14E 00 1.07E 02

## CENTER SEISMOMETER

5898 21 2.90211E 01 4.43E 00 1.66E 00 4.66E-01 1.51E 00 3.65E 00 3.65E 00 1.22E 02  
5898 22 2.82096E 01 3.05E 00 1.17E 00 4.73E-01 1.41E 00 3.14E 00 3.14E 00 1.07E 02  
5898 23 2.63120E 01 2.83E 00 1.11E 00 6.37E-01 1.41E 00 3.14E 00 3.14E 00 1.07E 02  
5898 24 2.81961E 01 2.66E 00 1.24E 00 3.07E-01 1.41E 00 3.14E 00 3.14E 00 1.07E 02  
5898 25 2.65441E 01 3.46E 00 1.49E 00 3.07E-01 1.41E 00 3.14E 00 3.14E 00 1.07E 02  
5898 26 2.83255E 01 3.08E 00 1.14E 00 3.07E-01 1.41E 00 3.14E 00 3.14E 00 1.07E 02  
AVERAGE 3.84E 00 1.42E 00 3.06E-01 1.62E 00 4.07E 00 4.07E 00 1.48E 02  
STD DEV 3.62E 00 1.33E 00 3.07E-01 1.47E 00 3.84E 00 3.84E 00 1.42E 02  
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AVE SIG/2\*NOISE 2.52E 00 1.04E 00 3.96E-01 1.61E 00 3.13E 00 3.13E 00 1.07E 02

## UNPHASED SUM

3.61E 00 1.32E 00 4.93E-01 1.62E 00 3.87E 00 3.87E 00 1.07E 02  
SIGNIFICANCE 3.62E-01 1.60E-01 1.60E-01 1.60E-01 3.86E-01 3.86E-01 1.07E 02  
SIGNAL/2\*NOISE 1.61E-01 1.44E-01 3.85E-01 1.44E-01 1.51E-01 1.51E-01 8.63E-02  
CALIBRATION 2.72186E 01 4.09E 01 3.88E 01

## CENTER SEISMOMETER

4.11E 00 1.50E 00 2.41E-01 1.73E 00 4.36E 00 4.36E 00 1.02E 02  
SIGNIFICANCE SAME LOW SAME  
SIGNAL/2\*NOISE 3.40E 01 2.85E 01  
CALIBRATION 2.72186E 01

## UNPHASED SUM

3.00E 00 6.73E-01 1.29E-01 8.37E-01 3.07E 00 3.07E 00 9.79E 01  
SIGNIFICANCE LOW LOW LOW  
SIGNAL/2\*NOISE 7.28E 01 5.85E 01  
CALIBRATION 2.72689E 01

SEISMOGRAMS 5896-5916 9 DECEMBER 1965

NOISE SAMPLE 51.2 SECONDS STARTING AT 13:36:30.0 GMT

## SEISMIC SIGNAL

ORIGIN TIME 13:25:40.7 GMT  
EPICENTER 17.7°S, 178.3°W FIJI IS.  
AO ARRIVAL TIME 13:37:38.0 GMT

| AO                      |             | C4                      |             | P-P                     |             | RMS                     |             | P-P                     |             | RMS                     |             | P-P                     |             | RMS                     |             |
|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|
| FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    | FROM (CPS)              | TO (CPS)    |
| 5899 21                 | 3.05939E 01 | 5901 21                 | 2.76311E 01 | 5901 21                 | 2.76311E 01 | 5901 21                 | 2.76311E 01 | 5901 21                 | 2.76311E 01 | 5901 21                 | 2.76311E 01 | 5901 21                 | 2.76311E 01 | 5901 21                 | 2.76311E 01 |
| 5899 22                 | 3.03811E 01 | 5901 22                 | 2.73711E 01 | 5901 22                 | 2.73711E 01 | 5901 22                 | 2.73711E 01 | 5901 22                 | 2.73711E 01 | 5901 22                 | 2.73711E 01 | 5901 22                 | 2.73711E 01 | 5901 22                 | 2.73711E 01 |
| 5899 23                 | 2.85556E 01 | 5901 23                 | 2.63311E 01 | 5901 23                 | 2.63311E 01 | 5901 23                 | 2.63311E 01 | 5901 23                 | 2.63311E 01 | 5901 23                 | 2.63311E 01 | 5901 23                 | 2.63311E 01 | 5901 23                 | 2.63311E 01 |
| 5899 24                 | 2.65744E 01 | 5901 24                 | 2.43111E 01 | 5901 24                 | 2.43111E 01 | 5901 24                 | 2.43111E 01 | 5901 24                 | 2.43111E 01 | 5901 24                 | 2.43111E 01 | 5901 24                 | 2.43111E 01 | 5901 24                 | 2.43111E 01 |
| 5899 25                 | 2.45744E 01 | 5901 25                 | 2.20711E 01 | 5901 25                 | 2.20711E 01 | 5901 25                 | 2.20711E 01 | 5901 25                 | 2.20711E 01 | 5901 25                 | 2.20711E 01 | 5901 25                 | 2.20711E 01 | 5901 25                 | 2.20711E 01 |
| 5899 26                 | 2.25972E 01 | 5901 26                 | 2.00711E 01 | 5901 26                 | 2.00711E 01 | 5901 26                 | 2.00711E 01 | 5901 26                 | 2.00711E 01 | 5901 26                 | 2.00711E 01 | 5901 26                 | 2.00711E 01 | 5901 26                 | 2.00711E 01 |
| 5899 27                 | 2.05972E 01 | 5901 27                 | 1.75711E 01 | 5901 27                 | 1.75711E 01 | 5901 27                 | 1.75711E 01 | 5901 27                 | 1.75711E 01 | 5901 27                 | 1.75711E 01 | 5901 27                 | 1.75711E 01 | 5901 27                 | 1.75711E 01 |
| 5899 28                 | 1.85972E 01 | 5901 28                 | 1.55711E 01 | 5901 28                 | 1.55711E 01 | 5901 28                 | 1.55711E 01 | 5901 28                 | 1.55711E 01 | 5901 28                 | 1.55711E 01 | 5901 28                 | 1.55711E 01 | 5901 28                 | 1.55711E 01 |
| 5899 29                 | 1.65972E 01 | 5901 29                 | 1.35711E 01 | 5901 29                 | 1.35711E 01 | 5901 29                 | 1.35711E 01 | 5901 29                 | 1.35711E 01 | 5901 29                 | 1.35711E 01 | 5901 29                 | 1.35711E 01 | 5901 29                 | 1.35711E 01 |
| 5899 30                 | 1.45972E 01 | 5901 30                 | 1.15711E 01 | 5901 30                 | 1.15711E 01 | 5901 30                 | 1.15711E 01 | 5901 30                 | 1.15711E 01 | 5901 30                 | 1.15711E 01 | 5901 30                 | 1.15711E 01 | 5901 30                 | 1.15711E 01 |
| 5899 31                 | 1.25972E 01 | 5901 31                 | 0.95711E 01 | 5901 31                 | 0.95711E 01 | 5901 31                 | 0.95711E 01 | 5901 31                 | 0.95711E 01 | 5901 31                 | 0.95711E 01 | 5901 31                 | 0.95711E 01 | 5901 31                 | 0.95711E 01 |
| 5899 32                 | 1.05972E 01 | 5901 32                 | 0.75711E 01 | 5901 32                 | 0.75711E 01 | 5901 32                 | 0.75711E 01 | 5901 32                 | 0.75711E 01 | 5901 32                 | 0.75711E 01 | 5901 32                 | 0.75711E 01 | 5901 32                 | 0.75711E 01 |
| 5899 33                 | 0.85972E 01 | 5901 33                 | 0.55711E 01 | 5901 33                 | 0.55711E 01 | 5901 33                 | 0.55711E 01 | 5901 33                 | 0.55711E 01 | 5901 33                 | 0.55711E 01 | 5901 33                 | 0.55711E 01 | 5901 33                 | 0.55711E 01 |
| 5899 34                 | 0.65972E 01 | 5901 34                 | 0.35711E 01 | 5901 34                 | 0.35711E 01 | 5901 34                 | 0.35711E 01 | 5901 34                 | 0.35711E 01 | 5901 34                 | 0.35711E 01 | 5901 34                 | 0.35711E 01 | 5901 34                 | 0.35711E 01 |
| 5899 35                 | 0.45972E 01 | 5901 35                 | 0.15711E 01 | 5901 35                 | 0.15711E 01 | 5901 35                 | 0.15711E 01 | 5901 35                 | 0.15711E 01 | 5901 35                 | 0.15711E 01 | 5901 35                 | 0.15711E 01 | 5901 35                 | 0.15711E 01 |
| 5899 36                 | 0.25972E 01 | 5901 36                 | 0.05711E 01 | 5901 36                 | 0.05711E 01 | 5901 36                 | 0.05711E 01 | 5901 36                 | 0.05711E 01 | 5901 36                 | 0.05711E 01 | 5901 36                 | 0.05711E 01 | 5901 36                 | 0.05711E 01 |
| AVERAGE                 |             | AVERAGE                 |             | AVERAGE                 |             | AVERAGE                 |             | AVERAGE                 |             | AVERAGE                 |             | AVERAGE                 |             | AVERAGE                 |             |
| STD DEV                 |             | STD DEV                 |             | STD DEV                 |             | STD DEV                 |             | STD DEV                 |             | STD DEV                 |             | STD DEV                 |             | STD DEV                 |             |
| SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             |
| CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             |
| CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             | CENTER SEISMOMETER      |             |
| SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             |
| SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             |
| CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             | CALIBRATION 2.69336E 01 |             |
| UNPHASED SUM            |             | UNPHASED SUM            |             | UNPHASED SUM            |             | UNPHASED SUM            |             | UNPHASED SUM            |             | UNPHASED SUM            |             | UNPHASED SUM            |             | UNPHASED SUM            |             |
| SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             | SIGNIFICANCE            |             |
| SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             | SIGNAL/2*NOISE          |             |
| CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             | CALIBRATION 3.03542E 01 |             |

| FROM (CPS)          |            | .50      |          | 2.00     |          | 5.00     |          | 10.00    |          | RMS      |          | P-P      |          |
|---------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TO (CPS)            |            | .50      |          | 2.00     |          | 5.00     |          | 10.00    |          | MOISE    |          | SIG      |          |
| B4                  |            |          |          |          |          |          |          |          |          |          |          |          |          |
| CHANNEL CALIBRATION |            |          |          |          |          |          |          |          |          |          |          |          |          |
| 5900 21             | 2.4654E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| 5900 22             | 2.4788E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| 5900 23             | 2.4932E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| 5900 24             | 2.5085E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| 5900 25             | 2.5247E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| 5900 26             | 2.5418E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| 5900 27             | 2.5598E 01 | 3.02E 00 | 1.46E 00 | 1.05E 00 | 2.92E 00 | 2.92E 00 | 1.05E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| AVERAGE             |            |          |          |          |          |          |          |          |          |          |          |          |          |
| STD DEV             | 4.09E-01   | 3.07E 00 | 1.45E 00 | 1.04E 00 | 2.92E 00 | 2.92E 00 | 1.04E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| STD ERROR           | 1.42E 01   | 3.07E 00 | 1.45E 00 | 1.04E 00 | 2.92E 00 | 2.92E 00 | 1.04E 00 | 4.90E-01 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 1.42E 02 | 1.42E 02 |
| AVE SIG/2*NOISE     |            |          |          |          |          |          |          |          |          |          |          |          |          |
| CENTER SEISMO METER | 2.33E-01   | 1.49E 00 | 1.06E 00 | 1.11E 00 | 3.22E 00 | 3.22E 00 | 1.11E 00 | 3.16E-01 | 3.46E 00 | 3.46E 00 | 3.46E 00 | 1.02E 02 | 1.02E 02 |
| SIGNAL/2*NOISE      | 4.11E 01   | 3.06E 01 | 1.06E 00 | 1.11E 00 | 3.22E 00 | 3.22E 00 | 1.11E 00 | 3.16E-01 | 3.46E 00 | 3.46E 00 | 3.46E 00 | 1.02E 02 | 1.02E 02 |
| CALIBRATION         | 2.7825E 01 | 3.06E 01 | 1.06E 00 | 1.11E 00 | 3.22E 00 | 3.22E 00 | 1.11E 00 | 3.16E-01 | 3.46E 00 | 3.46E 00 | 3.46E 00 | 1.02E 02 | 1.02E 02 |
| UNPHASED SUM        |            |          |          |          |          |          |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      | 5.74E 01   | 4.07E 01 | 1.07E 02 | 1.07E 02 | 2.35E 00 | 2.35E 00 | 1.07E 02 | 1.07E 02 | 2.36E 00 | 2.36E 00 | 2.36E 00 | 1.02E 02 | 1.02E 02 |
| CALIBRATION         | 2.7392E 01 | 4.07E 01 | 1.07E 02 | 1.07E 02 | 2.35E 00 | 2.35E 00 | 1.07E 02 | 1.07E 02 | 2.36E 00 | 2.36E 00 | 2.36E 00 | 1.02E 02 | 1.02E 02 |



[illegible]

| D3         |  |     |      |      |       |       |     |          |  |
|------------|--|-----|------|------|-------|-------|-----|----------|--|
| FROM (CPS) |  | .50 | 2.00 | 5.00 | 10.00 | RMS   | P-P | TO (CPS) |  |
|            |  | .50 | 2.00 | 5.00 | 10.00 | NOISE | MIN |          |  |
| D1         |  |     |      |      |       |       |     |          |  |
| FROM (CPS) |  | .50 | 2.00 | 5.00 | 10.00 | RMS   | P-P | TO (CPS) |  |
|            |  | .50 | 2.00 | 5.00 | 10.00 | NOISE | MIN |          |  |
| D2         |  |     |      |      |       |       |     |          |  |
| FROM (CPS) |  | .50 | 2.00 | 5.00 | 10.00 | RMS   | P-P | TO (CPS) |  |
|            |  | .50 | 2.00 | 5.00 | 10.00 | NOISE | MIN |          |  |
| D4         |  |     |      |      |       |       |     |          |  |
| FROM (CPS) |  | .50 | 2.00 | 5.00 | 10.00 | RMS   | P-P | TO (CPS) |  |
|            |  | .50 | 2.00 | 5.00 | 10.00 | NOISE | MIN |          |  |
| D5         |  |     |      |      |       |       |     |          |  |
| FROM (CPS) |  | .50 | 2.00 | 5.00 | 10.00 | RMS   | P-P | TO (CPS) |  |
|            |  | .50 | 2.00 | 5.00 | 10.00 | NOISE | MIN |          |  |



E3

| FROM (CPS) |  | TO (CPS) |  | RMS |  | P-P |  | RMS |  | P-P |  |
|------------|--|----------|--|-----|--|-----|--|-----|--|-----|--|
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FROM (CPS)  
TO (CPS)

| FROM (CPS) | TO (CPS) | 0 | .50 | 2.00 | 5.00 | 10.00 | 20.00 | 40.00 | 80.00 | 160.00 | 320.00 | 640.00 | 1280.00 | 2560.00 | 5120.00 | 10240.00 | 20480.00 | 40960.00 | 81920.00 | 163840.00 | 327680.00 | 655360.00 | 1310720.00 | 2621440.00 | 5242880.00 | 10485760.00 | 20971520.00 | 41943040.00 | 83886080.00 | 167772160.00 | 335544320.00 | 671088640.00 | 1342177280.00 | 2684354560.00 | 5368709120.00 | 10737418240.00 | 21474836480.00 | 42949672960.00 | 85899345920.00 | 171798691840.00 | 343597383680.00 | 687194767360.00 | 1374389534720.00 | 2748779069440.00 | 5497558138880.00 | 10995116277760.00 | 21990232555520.00 | 43980465111040.00 | 87960930222080.00 | 175921860444160.00 | 351843720888320.00 | 703687441776640.00 | 1407374883553280.00 | 2814749767106560.00 | 5629499534213120.00 | 11258999068426240.00 | 22517998136852480.00 | 45035996273704960.00 | 90071992547409920.00 | 180143985094819840.00 | 360287970189639680.00 | 720575940379279360.00 | 1441151880758558720.00 | 2882303761517117440.00 | 5764607523034234880.00 | 11529215046068469760.00 | 23058430092136939520.00 | 46116860184273879040.00 | 92233720368547758080.00 | 184467440737095516160.00 | 368934881474191032320.00 | 737869762948382064640.00 | 1475739525896764129280.00 | 2951479051793528258560.00 | 5902958103587056517120.00 | 11805916207174113034240.00 | 23611832414348226068480.00 | 47223664828696452136960.00 | 94447329657392904273920.00 | 188894659314785808547840.00 | 377789318629571617095680.00 | 755578637259143234191360.00 | 1511157274518286468382720.00 | 3022314549036572936765440.00 | 6044629098073145873530880.00 | 12089258196146291747061760.00 | 24178516392292583494123520.00 | 48357032784585166988247040.00 | 96714065569170333976494080.00 | 193428131138340667952988160.00 | 386856262276681335905976320.00 | 773712524553362671811952640.00 | 1547425049106725343623905280.00 | 3094850098213450687247810560.00 | 6189700196426901374495621120.00 | 12379400392853802748991242240.00 | 24758800785707605497982484480.00 | 49517601571415210995964968960.00 | 99035203142830421991929937920.00 | 198070406285660843983859875840.00 | 396140812571321687967719751680.00 | 792281625142643375935439503360.00 | 1584563250285286751870879006720.00 | 3169126500570573503741758013440.00 | 6338253001141147007483516026880.00 | 12676506002282294014967032053760.00 | 25353012004564588029934064107520.00 | 50706024009129176059868128215040.00 | 101412048018258352119736256430080.00 | 202824096036516704239472512860160.00 | 405648192073033408478945025720320.00 | 811296384146066816957890051440640.00 | 1622592768292133633915780102881280.00 | 3245185536584267267831560205762560.00 | 6490371073168534535663120411525120.00 | 12980742146337069071326240823050240.00 | 25961484292674138142652481646100480.00 | 51922968585348276285304963292200960.00 | 103845937170696552570609926584401920.00 | 207691874341393105141219853168803840.00 | 415383748682786210282439706337607680.00 | 830767497365572420564879412675215360.00 | 1661534994731144841129758825350430720.00 | 3323069989462289682259517650700861440.00 | 6646139978924579364519035301401722880.00 | 13292279957849158729038070602803445760.00 | 26584559915698317458076141205606891520.00 | 53169119831396634916152282411213783040.00 | 106338239662793269832304564822427566080.00 | 212676479325586539664609129644855132160.00 | 425352958651173079329218259289710264320.00 | 850705917302346158658436518579420528640.00 | 1701411834604692317316873037158841057280.00 | 3402823669209384634633746074317682114560.00 | 6805647338418769269267492148635364229120.00 | 13611294676837538538534984297270728458240.00 | 27222589353675077077069968594541456916480.00 | 5444517870735015415413993718908291383 |
|------------|----------|---|-----|------|------|-------|-------|-------|-------|--------|--------|--------|---------|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|---------------------------------------|
|------------|----------|---|-----|------|------|-------|-------|-------|-------|--------|--------|--------|---------|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|---------------------------------------|





50



[illegible]

## D3

| FROM (CPS)        | TO (CPS)    | .50      | .50      | 2.00     | .40      | 10.00    | RMS      | P-P      | SIG      |
|-------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL           | CALIBRATION |          |          |          |          |          |          |          |          |
| 5928 21           | 2.9056E 01  | 3.06E 00 | 1.02E 00 | 1.44E 00 | 2.44E 00 | 4.32E 00 | 4.32E 00 | 2.94E 01 | 1.74E 01 |
| 5928 22           | 2.69394E 01 | 3.02E 00 | 1.03E 00 | 1.06E 00 | 1.74E 00 | 3.44E 00 | 3.44E 00 | 2.55E 01 | 2.10E 01 |
| 5928 23           | 2.94194E 01 | 3.47E 00 | 1.42E 00 | 9.73E-01 | 1.74E 00 | 3.79E 00 | 3.79E 00 | 2.24E 01 | 1.50E 01 |
| 5928 24           | 2.8200E 01  | 2.87E 00 | 1.42E 00 | 1.11E 00 | 1.83E 00 | 3.32E 00 | 3.32E 00 | 2.65E 01 | 1.52E 01 |
| 5928 25           | 2.90211E 01 | 2.93E 00 | 1.31E 00 | 1.07E 00 | 1.83E 00 | 3.36E 00 | 3.36E 00 | 2.33E 01 | 1.44E 01 |
| 5928 26           | 3.00467E 01 | 3.86E 00 | 1.47E 00 | 1.48E 00 | 2.47E 00 | 4.05E 00 | 4.05E 00 | 2.45E 01 | 2.23E 01 |
| AVERAGE           |             | 3.09E 00 | 1.42E 00 | 1.09E 00 | 1.82E 00 | 3.72E 00 | 3.72E 00 | 2.59E 01 | 1.69E 01 |
| STD DEV           |             | 4.07E-01 | 2.00E-01 | 7.43E-02 | 3.11E-01 | 4.31E-01 | 4.31E-01 | 2.33E 00 | 1.28E 00 |
| STD ERROR         |             | 1.24E-01 | 6.46E-02 | 1.67E-01 | 1.67E-01 | 1.14E-01 | 1.14E-01 | 9.36E-02 | 2.34E-01 |
| AVE SIG/2*NOISE   |             | 8.66E 00 |          |          | 6.03E 00 |          |          | 5.14E 00 | 2.09E-01 |
| CENTER SEISMOETER |             | 3.04E 00 | 1.02E 00 | 4.93E-01 | 1.84E 00 | 3.84E 00 | 3.84E 00 | 1.94E 01 | 1.35E 01 |
| SIGNAL/2*NOISE    |             | SAME     | SAME     | LOW      | SAME     | SAME     | SAME     | LOW      | SAME     |
| CALIBRATION       | 2.91047E 01 | 7.99E 00 |          |          | 5.26E 00 |          |          | 4.21E 00 | 1.35E 01 |
| UNPHASED SUM      |             | 2.50E 00 | 7.10E-01 | 2.47E-01 | 1.44E 00 | 2.46E 00 | 2.46E 00 | 1.04E 00 | 1.27E 01 |
| SIGNAL/2*NOISE    |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION       | 2.85607E 01 | 1.42E 01 |          |          | 8.66E 00 |          |          | 6.02E 00 | 2.34E-01 |

## D4

| FROM (CPS)        | TO (CPS)    | .50      | .50      | 2.00     | .40      | 10.00    | RMS      | P-P      | SIG      |
|-------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL           | CALIBRATION |          |          |          |          |          |          |          |          |
| 5929 21           | 2.71942E 01 | 2.66E 00 | 9.75E-01 | 9.95E-01 | 1.32E 00 | 3.47E 00 | 3.47E 00 | 4.22E 01 | 2.61E 01 |
| 5929 22           | 2.77314E 01 | 3.99E 00 | 1.05E 00 | 6.65E-01 | 1.75E 00 | 3.66E 00 | 3.66E 00 | 5.02E 01 | 2.60E 01 |
| 5929 23           | 2.77314E 01 | 4.00E 00 | 1.06E 00 | 6.65E-01 | 1.75E 00 | 3.66E 00 | 3.66E 00 | 5.02E 01 | 2.60E 01 |
| 5929 24           | 2.7809E 01  | 2.86E 00 | 9.75E-01 | 4.75E-01 | 1.82E 00 | 3.47E 00 | 3.47E 00 | 4.22E 01 | 2.61E 01 |
| 5929 25           | 2.7619E 01  | 2.86E 00 | 9.75E-01 | 4.75E-01 | 1.82E 00 | 3.47E 00 | 3.47E 00 | 4.22E 01 | 2.61E 01 |
| 5929 26           | 2.76194E 01 | 3.20E 00 | 9.11E-01 | 4.84E-01 | 1.91E 00 | 3.33E 00 | 3.33E 00 | 4.31E 01 | 2.64E 01 |
| AVERAGE           |             | 3.13E 00 | 1.04E 00 | 5.81E-01 | 1.44E 00 | 3.36E 00 | 3.36E 00 | 4.51E 01 | 2.45E 01 |
| STD DEV           |             | 5.21E-01 | 1.84E-01 | 2.32E-01 | 2.82E-01 | 5.11E-01 | 5.11E-01 | 3.09E 00 | 1.34E 00 |
| STD ERROR         |             | 1.66E-01 | 1.81E-01 | 3.88E-01 | 1.84E-01 | 1.42E-01 | 1.42E-01 | 1.93E-01 | 1.28E-01 |
| AVE SIG/2*NOISE   |             | 2.14E 01 |          |          | 1.47E 01 |          |          | 1.05E 01 | 1.89E-01 |
| CENTER SEISMOETER |             | 2.62E 00 | 8.80E-01 | 2.82E-01 | 1.59E 00 | 2.76E 00 | 2.76E 00 | 3.42E 01 | 2.05E 01 |
| SIGNAL/2*NOISE    |             | SAME     | LOW      | LOW      | SAME     | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION       | 2.85086E 01 | 1.94E 01 |          |          | 1.44E 01 |          |          | 9.46E 00 | 2.93E 00 |
| UNPHASED SUM      |             | 2.19E 00 | 6.32E-01 | 9.44E-02 | 1.02E 00 | 2.19E 00 | 2.19E 00 | 8.94E-01 | 2.29E 00 |
| SIGNAL/2*NOISE    |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION       | 2.78920E 01 | 2.50E 01 |          |          | 1.93E 01 |          |          | 1.13E 01 | 2.01E 01 |



| E1                  |          |          |          |          |          |          |            |          |          |          |          |          |          |
|---------------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|
| FROM (CPS)          | TO (CPS) | 2.00     | 5.00     | 10.00    | RMS      | P-P      | FROM (CPS) | TO (CPS) | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
| 0                   | 0        | 0        | 0        | 0        | 0        | 0        | 0          | 0        | 0        | 0        | 0        | 0        | 0        |
| CHANNEL CALIBRATION |          |          |          |          |          |          |            |          |          |          |          |          |          |
| 5932 21             | 5934 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 21    | 5936 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 22             | 5934 22  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 22    | 5936 22  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 23             | 5934 23  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 23    | 5936 23  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 24             | 5934 24  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 24    | 5936 24  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 25             | 5934 25  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 25    | 5936 25  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 26             | 5934 26  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 26    | 5936 26  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| AVERAGE             |          |          |          |          |          |          |            |          |          |          |          |          |          |
| 5932 21             | 5934 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 21    | 5936 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 22             | 5934 22  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 22    | 5936 22  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 23             | 5934 23  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 23    | 5936 23  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 24             | 5934 24  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 24    | 5936 24  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 25             | 5934 25  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 25    | 5936 25  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 26             | 5934 26  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 26    | 5936 26  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| CENTER SEISMOGRAPH  |          |          |          |          |          |          |            |          |          |          |          |          |          |
| 5932 21             | 5934 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 21    | 5936 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 22             | 5934 22  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 22    | 5936 22  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 23             | 5934 23  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 23    | 5936 23  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 24             | 5934 24  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 24    | 5936 24  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 25             | 5934 25  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 25    | 5936 25  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| 5932 26             | 5934 26  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 26    | 5936 26  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 |
| AVERAGE             |          |          |          |          |          |          |            |          |          |          |          |          |          |
| 5932 21             | 5934 21  | 1.73E 00 | 3.50E 00 | 3.50E 00 | 3.50E 00 | 1.90E 01 | 5934 21    | 5936 21  | 1.73E 00 | 3.50E 00 | 3.       |          |          |

| FROM (CPS)              | 0         | 50       | 300      | 40       | 0        | PKS      | PR       |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|
| TO (CPS)                | 150       | 200      | 500      | 200      | 1000     | NOISE    | SIG      |
| CHANNEL CALIBRATION     |           |          |          |          |          |          |          |
| 5306 21                 | 3.95E 00  | 1.06E 00 | 3.95E 01 | 1.55E 00 | 3.95E 00 | 3.95E 00 | 3.95E 01 |
| 5306 22                 | 2.747E 01 | 1.06E 01 | 4.35E 01 | 1.25E 00 | 2.95E 00 | 2.95E 01 | 4.75E 01 |
| 5306 23                 | 2.960E 01 | 1.15E 00 | 3.95E 01 | 1.55E 00 | 3.95E 00 | 3.95E 01 | 2.95E 01 |
| 5306 24                 | 2.284E 01 | 1.12E 00 | 4.75E 01 | 1.65E 00 | 3.95E 00 | 3.95E 01 | 4.35E 01 |
| 5306 25                 | 2.95E 01  | 1.12E 00 | 3.95E 01 | 1.65E 00 | 3.95E 00 | 3.95E 01 | 2.95E 01 |
| 5306 26                 | 2.693E 01 | 1.13E 00 | 4.05E 01 | 1.45E 00 | 3.95E 00 | 3.95E 01 | 3.95E 01 |
| AVERAGE                 | 3.94E 00  | 1.14E 00 | 4.25E 01 | 1.52E 01 | 3.95E 00 | 3.95E 01 | 3.95E 01 |
| STD DEV                 | 3.94E 01  | 1.95E 01 | 1.15E 01 | 1.05E 01 | 3.75E 01 | 3.75E 01 | 5.75E 01 |
| SIG ERROR               | 1.90E 01  | 1.15E 01 | 2.65E 01 | 1.05E 01 | 1.14E 01 | 1.14E 01 | 1.14E 01 |
| STD SIG/NOISE           | 1.69E 01  | 1.69E 01 |          | 1.20E 01 |          |          |          |
| CENTER RECEPTOR         |           |          |          |          |          |          |          |
| SIGNAL/1                | 3.95E 00  | 1.05E 00 | 3.05E 01 | 1.35E 00 | 3.95E 00 | 3.95E 00 | 2.95E 01 |
| SIGNAL/2                |           |          |          |          |          | SAKE     | LOW      |
| SIGNAL/3                |           |          |          |          |          | SAKE     | LOW      |
| SIGNAL/4                |           |          |          |          |          | SAKE     | LOW      |
| SIGNAL/5                |           |          |          |          |          | SAKE     | LOW      |
| CALIBRATION 2.75397E 01 |           |          |          |          |          |          |          |
| UNPHASED SUM            | 2.41E 00  | 7.74E 01 | 7.33E 02 | 1.05E 00 | 2.53E 00 | 2.53E 00 | 2.79E 01 |
| SIGNAL/CANCE            |           |          |          |          |          | LOW      | LOW      |
| SIGNAL/2/NOISE          |           |          |          |          |          |          |          |
| CALIBRATION 2.77939E 01 |           |          |          |          |          |          |          |

| FROM (DBS)        | 0        | 2.00     | 4.00     | NOISE    | RMS      | P.D.     |
|-------------------|----------|----------|----------|----------|----------|----------|
| TO (DBS)          | 2.00     | 5.00     | 2.20     | 10.00    |          | 10.00    |
| CHANNEL           |          |          |          |          |          |          |
| CALIBRATION       |          |          |          |          |          |          |
| 5937 21           | 3.04E 00 | 1.00E 00 | 5.00E-01 | 1.41E 00 | 3.23E 00 | 2.00E 01 |
| 2.4633E 01        |          |          |          |          | 4.72E 00 | 2.30E 01 |
| 5937 22           | 4.05E 00 | 1.00E 00 | 4.00E-01 | 1.00E 00 | 4.00E 00 | 2.40E 01 |
| 2.4544E 01        |          |          |          |          | 4.00E 00 | 2.40E 01 |
| 5937 23           | 3.07E 00 | 1.00E 00 | 4.00E-01 | 1.00E 00 | 3.00E 00 | 2.00E 01 |
| 2.4374E 01        |          |          |          |          | 4.00E 00 | 2.00E 01 |
| 5937 24           | 3.00E 00 | 1.00E 00 | 4.00E-01 | 1.00E 00 | 4.00E 00 | 2.00E 01 |
| 2.4324E 01        |          |          |          |          | 4.00E 00 | 2.00E 01 |
| 5937 25           | 2.00E 00 | 1.00E 00 | 4.00E-01 | 1.00E 00 | 3.00E 00 | 2.00E 01 |
| 2.4036E 01        |          |          |          |          | 3.00E 00 | 2.00E 01 |
| 5937 26           | 3.00E 00 | 1.00E 00 | 4.00E-01 | 1.00E 00 | 3.00E 00 | 2.00E 01 |
| 2.4036E 01        |          |          |          |          | 3.00E 00 | 2.00E 01 |
| AVERAGE           | 3.00E 00 | 1.00E 00 | 4.00E-01 | 1.00E 00 | 3.00E 00 | 2.00E 01 |
| STD DEV           | 4.00E-01 | 2.00E-01 | 5.00E-02 | 2.40E-01 | 5.00E-01 | 2.50E 01 |
| STD ERROR         | 1.00E-01 | 5.00E-02 | 1.00E-01 | 1.00E-01 | 1.00E-01 | 1.00E-01 |
| AVE SIG2/NOISE    | 9.00E 00 | 9.00E 00 | 0.00E 00 | 0.00E 00 | 3.00E-01 | 1.00E-01 |
| CENTER SEISMOETER |          |          |          |          |          |          |
| SIGNAL/2*NOISE    | 2.07E 00 | 9.07E-01 | 1.00E-01 | 1.00E 00 | 2.00E 00 | 1.70E 01 |
| CALIBRATION       | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| 2.9500E 01        | 9.01E 00 | 9.01E 00 | 0.00E 00 | 0.00E 00 | 0.00E 00 | 0.00E 00 |
| UNPHASED SUM      |          |          |          |          |          |          |
| SIGNAL/2*NOISE    | 2.00E 00 | 7.00E-01 | 9.00E-02 | 1.00E 00 | 2.00E 00 | 1.70E 01 |
| CALIBRATION       | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| 2.7714E 01        | 1.00E 01 | 1.00E 01 | 0.00E 00 | 0.00E 00 | 0.00E 00 | 0.00E 00 |



## F3

FROM (CPS)  
TO (CPS)0  
00  
02.00  
5.002.40  
2.200  
10.00RMS  
NOISEP-P  
SIG

## CHANNEL CALIBRATION

3321 21 2.8558E 01  
3321 22 2.8468E 01  
3321 23 2.5792E 01  
3321 24 2.7086E 01  
3321 25 2.6880E 01  
3321 26 2.8444E 01

## AVERAGE

STD DEV 4.02E 00  
STD ERROR 3.72E-01  
AVE SIG/2\*NOISE 9.45E 01

## CENTER SEISMOMETER

SIGNIFICANCE 4.23E 00  
SIGNAL/2\*NOISE SAME  
CALIBRATION 2.66075E 01

## UNPHASED SUM

SIGNIFICANCE 3.25E 00  
SIGNAL/2\*NOISE LOW  
CALIBRATION 2.75276E 01

SEISMOGRAMS 5320-5340 12 DECEMBER 1965

NOISE SAMPLE 51.2 SECONDS STARTING AT 00:55:12.0 GMT

## SEISMIC SIGNAL

ORIGIN TIME 00:48:01.7 GMT

EPICENTER 51.5°N, 178.9°W ALEUTIAN IS.

AO ARRIVAL TIME 00:56:22.4 GMT

## F4

FROM (CPS)  
TO (CPS)0  
00  
02.00  
5.002.40  
2.200  
10.00RMS  
NOISEP-P  
SIG

## CHANNEL CALIBRATION

5320 21 2.8449E 01  
5320 22 2.8502E 01  
5320 23 2.8413E 01  
5320 24 2.8043E 01  
5320 25 2.8550E 01  
5320 26 2.7763E 01

## AVERAGE

STD DEV 3.05E 00  
STD ERROR 3.15E-01  
AVE SIG/2\*NOISE 1.41E-01

## CENTER SEISMOMETER

SIGNIFICANCE 3.26E 00  
SIGNAL/2\*NOISE SAME  
CALIBRATION 2.87422E 01

## UNPHASED SUM

SIGNIFICANCE 2.63E 00  
SIGNAL/2\*NOISE LOW  
CALIBRATION 2.87787E 01

## F4

FROM (CPS)  
TO (CPS)0  
00  
02.00  
5.002.40  
2.200  
10.00RMS  
NOISEP-P  
SIG

## CHANNEL CALIBRATION

5322 21 2.8449E 01  
5322 22 2.8502E 01  
5322 23 2.8413E 01  
5322 24 2.8043E 01  
5322 25 2.8550E 01  
5322 26 2.7763E 01

## AVERAGE

STD DEV 3.05E 00  
STD ERROR 3.15E-01  
AVE SIG/2\*NOISE 1.41E-01

## CENTER SEISMOMETER

SIGNIFICANCE 3.26E 00  
SIGNAL/2\*NOISE SAME  
CALIBRATION 2.87422E 01

## UNPHASED SUM

SIGNIFICANCE 2.63E 00  
SIGNAL/2\*NOISE LOW  
CALIBRATION 2.87787E 01

[illegible]



[illegible]





| FROM (CPS)          | 0           | .50      | 2.00     | 5.00     | P-P      | RMS      | 0        | .50      | 2.00     | 5.00     | P-P             | RMS         | 0        | .50      | 2.00     | 5.00     | P-P      | RMS      |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|-------------|----------|----------|----------|----------|----------|----------|
| TO (CPS)            | .50         | 2.00     | 5.00     | 10.00    | SIG      | NOISE    | 10.00    | 2.00     | 5.00     | 10.00    | SIG             | NOISE       | 10.00    | 2.00     | 5.00     | 10.00    | SIG      | NOISE    |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |          |          |                 |             |          |          |          |          |          |          |
| 5336 21             | 2.93386E 01 | 3.33E 00 | 1.05E 00 | 8.46E-01 | 1.45E 00 | 3.59E 00 | 3.59E 00 | 3.59E 00 | 1.45E 00 | 1.34E 02 | 5337 21         | 2.79933E 01 | 5.24E 00 | 2.05E 00 | 9.00E-01 | 2.05E 00 | 1.90E 02 | 5.16E 00 |
| 5336 22             | 2.63409E 01 | 3.61E 00 | 1.15E 00 | 1.17E-01 | 1.57E 00 | 3.93E 00 | 3.93E 00 | 3.93E 00 | 1.57E 00 | 1.37E 02 | 5337 22         | 2.66797E 01 | 3.47E 00 | 1.56E 00 | 9.35E-01 | 2.05E 00 | 2.15E 02 | 3.90E 00 |
| 5336 23             | 2.83559E 01 | 3.15E 00 | 1.05E 00 | 1.19E-01 | 1.50E 00 | 3.45E 00 | 3.45E 00 | 3.45E 00 | 1.50E 00 | 1.19E 02 | 5337 23         | 2.75337E 01 | 3.45E 00 | 1.67E 00 | 9.15E-01 | 2.05E 00 | 2.15E 02 | 3.90E 00 |
| 5336 24             | 2.79901E 01 | 3.10E 00 | 1.20E 00 | 1.35E-01 | 1.55E 00 | 4.17E 00 | 4.17E 00 | 4.17E 00 | 1.55E 00 | 1.35E 02 | 5337 24         | 2.71111E 01 | 3.56E 00 | 1.25E 00 | 1.15E 00 | 2.05E 00 | 2.05E 02 | 3.90E 00 |
| 5336 25             | 2.85702E 01 | 3.60E 00 | 1.10E 00 | 1.30E-01 | 1.50E 00 | 3.93E 00 | 3.93E 00 | 3.93E 00 | 1.50E 00 | 1.30E 02 | 5337 25         | 2.68850E 01 | 3.26E 00 | 1.50E 00 | 1.00E 00 | 2.05E 00 | 2.15E 02 | 3.90E 00 |
| 5336 26             | 2.68406E 01 | 2.85E 00 | 1.15E 00 | 1.04E 00 | 1.44E 00 | 3.23E 00 | 3.23E 00 | 3.23E 00 | 1.44E 00 | 1.55E 02 | 5337 26         | 2.68531E 01 | 2.79E 00 | 1.55E 00 | 7.66E-01 | 2.05E 00 | 1.60E 02 | 3.15E 00 |
| AVERAGE             |             |          |          |          |          |          |          |          |          |          |                 |             |          |          |          |          |          |          |
| STD DEV             | 3.39E-01    | 1.12E 00 | 1.00E 00 | 1.55E-01 | 1.50E 00 | 3.71E 00 | 3.71E 00 | 3.71E 00 | 1.50E 00 | 1.38E 02 | STD DEV         | 3.41E-01    | 1.67E 00 | 1.00E 00 | 9.04E-01 | 2.05E 00 | 2.05E 02 | 3.90E 00 |
| STD ERROR           | 3.56E-01    | 7.75E-02 | 2.14E-01 | 1.55E-01 | 1.50E-01 | 3.69E-01 | 3.69E-01 | 3.69E-01 | 1.50E-01 | 1.37E 02 | STD ERROR       | 3.79E-01    | 2.97E-01 | 1.00E 00 | 1.00E 00 | 2.05E 00 | 2.05E 02 | 3.90E 00 |
| AVE SIG/2*NOISE     | 1.89E-01    | 6.16E 01 | 4.15E-01 | 4.36E 01 | 4.36E 01 | 9.95E-02 | 9.95E-02 | 9.95E-02 | 4.36E 01 | 9.01E 02 | AVE SIG/2*NOISE | 2.65E-01    | 5.44E 01 | 3.40E 01 | 3.40E 01 | 2.05E 00 | 2.05E 02 | 3.90E 00 |
| CENTER SEISMOETER   |             |          |          |          |          |          |          |          |          |          |                 |             |          |          |          |          |          |          |
| SIGNIFICANCE        | 3.00E 00    | 1.03E 00 | 4.71E-01 | 1.45E 00 | 1.45E 00 | 3.28E 00 | 3.28E 00 | 3.28E 00 | 1.45E 00 | 1.19E 02 | SIGNIFICANCE    | 2.55E 00    | 1.41E 00 | 3.41E-01 | 1.66E 00 | 2.89E 00 | 1.61E 02 | 2.89E 00 |
| SIGNAL/2*NOISE      | SAME        | LOW      | LOW      | SAFE     | SAFE     | LOW      | LOW      | LOW      | SAFE     | LOW      | SIGNAL/2*NOISE  | SAME        | LOW      | LOW      | SAFE     | LOW      | LOW      | LOW      |
| CALIBRATION         | 2.62433E 01 | 5.74E 01 | 4.00E 01 | 4.00E 01 | 4.00E 01 | 5.70E 01 | 5.70E 01 | 5.70E 01 | 4.00E 01 | 4.84E 01 | CALIBRATION     | 2.68453E 01 | 5.70E 01 | 3.40E 01 | 3.40E 01 | 2.05E 00 | 2.05E 02 | 3.90E 00 |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |          |          |                 |             |          |          |          |          |          |          |
| SIGNIFICANCE        | 2.67E 00    | 6.56E-01 | 2.13E-01 | 1.02E 00 | 1.02E 00 | 2.09E 00 | 2.09E 00 | 2.09E 00 | 1.02E 00 | 1.11E 02 | SIGNIFICANCE    | 2.14E 00    | 6.60E-01 | 2.54E-01 | 2.54E 00 | 2.23E 00 | 7.90E 01 | 2.23E 00 |
| SIGNAL/2*NOISE      | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | SIGNAL/2*NOISE  | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION         | 2.61785E 01 | 8.44E 01 | 5.47E 01 | 5.47E 01 | 5.47E 01 | 8.44E 01 |          |          |          |          |                 |             |          |          |          |          |          |          |

E2

| FROM (CPS)          | 0          | .50      | 2.00     | 5.00     | 10.00    | RMS      | R-P      |
|---------------------|------------|----------|----------|----------|----------|----------|----------|
| TO (CPS)            | 0          | 2.00     | 5.00     | 10.00    | 20.00    | NOISE    | SIG      |
| CHANNEL CALIBRATION |            |          |          |          |          |          |          |
| 5339 21             | 3.03E 00   | 2.42E 00 | 5.92E 00 | 2.66E 00 | 5.50E 00 | 5.51E 00 | 1.55E 02 |
| 5339 22             | 2.7092E 01 | 2.42E 00 | 2.02E 00 | 2.02E 00 | 3.37E 00 | 3.37E 00 | 2.72E 02 |
| 5339 23             | 2.7339E 01 | 1.53E 00 | 1.53E 00 | 1.53E 00 | 3.54E 00 | 3.54E 00 | 1.53E 02 |
| 5339 24             | 2.5022E 01 | 1.53E 00 | 1.53E 00 | 1.53E 00 | 3.44E 00 | 3.44E 00 | 1.53E 02 |
| 5339 25             | 2.9135E 01 | 1.53E 00 | 1.73E 00 | 1.53E 00 | 3.30E 00 | 3.30E 00 | 1.53E 02 |
| 5339 26             | 2.7103E 01 | 1.53E 00 | 1.73E 00 | 1.53E 00 | 3.63E 00 | 3.63E 00 | 1.53E 02 |
| 5339 26             | 2.6849E 01 | 1.53E 00 | 1.73E 00 | 1.53E 00 | 3.63E 00 | 3.63E 00 | 1.53E 02 |
| AVERAGE             | 2.70E 00   | 1.61E 00 | 2.06E 00 | 1.92E 00 | 3.81E 00 | 3.81E 00 | 1.78E 02 |
| STD DEV             | 3.40E-01   | 3.44E-01 | 9.37E-01 | 3.65E-01 | 8.38E-01 | 8.38E-01 | 3.32E 01 |
| STD ERROR           | 1.32E-01   | 2.59E-01 | 4.06E-01 | 1.85E-01 | 2.28E-01 | 2.20E-01 | 1.78E-01 |
| AVE SIG/2*NOISE     | 5.60E 01   | 5.60E 01 | 4.15E 01 | 4.15E 01 | 4.15E 01 | 4.15E 01 | 1.78E-01 |
| CENTER SEISMOMETER  | 2.04E 00   | 1.33E 00 | 7.92E-01 | 1.54E 00 | 3.03E 00 | 3.03E 00 | 1.40E 02 |
| SIGNAL/2*NOISE      | SAME       | SAME     | LOW      | LOW      | SAME     | SAME     | LOW      |
| CALIBRATION         | 5.27E 01   | 5.27E 01 | 4.49E 01 | 4.49E 01 | 4.49E 01 | 4.49E 01 | 1.40E 02 |
| UNPHASED SUM        | 2.07E 00   | 8.81E-01 | 8.78E-01 | 8.37E-01 | 2.18E 00 | 2.18E 00 | 1.22E 02 |
| SIGNAL/2*NOISE      | LOW        | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION         | 8.79E 01   | 8.79E 01 | 7.22E 01 | 7.22E 01 | 7.22E 01 | 7.22E 01 | 1.22E 02 |

F2

| FROM (CPS)          | 0          | .50      | 2.00     | 5.00     | 10.00    | RMS      | R-P      |
|---------------------|------------|----------|----------|----------|----------|----------|----------|
| TO (CPS)            | 0          | 2.00     | 5.00     | 10.00    | 20.00    | NOISE    | SIG      |
| CHANNEL CALIBRATION |            |          |          |          |          |          |          |
| 5340 21             | 2.84E 00   | 1.17E 00 | 5.08E-01 | 1.66E 00 | 3.15E 00 | 3.15E 00 | 1.49E 02 |
| 5340 22             | 2.7690E 01 | 1.42E 00 | 5.08E-01 | 1.85E 00 | 4.05E 00 | 4.05E 00 | 1.47E 02 |
| 5340 23             | 2.7321E 01 | 1.42E 00 | 5.08E-01 | 1.85E 00 | 4.05E 00 | 4.05E 00 | 1.47E 02 |
| 5340 24             | 2.7690E 01 | 1.42E 00 | 5.08E-01 | 1.85E 00 | 4.05E 00 | 4.05E 00 | 1.47E 02 |
| 5340 25             | 2.6909E 01 | 1.42E 00 | 5.08E-01 | 1.85E 00 | 4.05E 00 | 4.05E 00 | 1.47E 02 |
| 5340 26             | 2.6909E 01 | 1.42E 00 | 5.08E-01 | 1.85E 00 | 4.05E 00 | 4.05E 00 | 1.47E 02 |
| AVERAGE             | 3.40E 00   | 1.32E 00 | 5.79E-01 | 1.72E 00 | 3.66E 00 | 3.67E 00 | 1.60E 02 |
| STD DEV             | 4.67E-01   | 1.81E-01 | 6.84E-02 | 1.05E-01 | 8.68E-01 | 8.68E-01 | 1.13E 01 |
| STD ERROR           | 1.37E-01   | 1.81E-01 | 1.48E-01 | 6.08E-02 | 1.27E-01 | 1.20E-01 | 6.71E-02 |
| AVE SIG/2*NOISE     | 6.09E 01   | 6.09E 01 | 4.90E 01 | 4.90E 01 | 4.90E 01 | 4.90E 01 | 1.44E 02 |
| CENTER SEISMOMETER  | 2.73E 00   | 1.00E 00 | 3.44E-01 | 1.35E 00 | 2.92E 00 | 2.92E 00 | 1.44E 02 |
| SIGNAL/2*NOISE      | LOW        | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION         | 7.20E 01   | 7.20E 01 | 5.31E 01 | 5.31E 01 | 5.31E 01 | 5.31E 01 | 1.44E 02 |
| UNPHASED SUM        | 2.59E 00   | 7.81E-01 | 2.87E-01 | 1.06E 00 | 2.69E 00 | 2.69E 00 | 1.28E 02 |
| SIGNAL/2*NOISE      | LOW        | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION         | 8.54E 01   | 8.54E 01 | 6.84E 01 | 6.84E 01 | 6.84E 01 | 6.84E 01 | 1.28E 02 |





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## D3

| FROM (CPS)         | TO (CPS)    | 0        | .50      | 2.00     | .40      | 10.00    | 0        | RMS      | P-P      | SIG      | 0        | .50      | 2.00     | .40      | 10.00    | 0        | RMS      | P-P      | SIG      |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL            | CALIBRATION | 3.31E 00 | 1.22E 00 | 7.00E-01 | 1.02E 00 | 3.61E 00 | 3.60E 00 | 3.60E 00 | 2.03E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 |
| 6378 21            | 2.9003E 01  | 3.31E 00 | 1.22E 00 | 7.00E-01 | 1.02E 00 | 3.61E 00 | 3.60E 00 | 3.60E 00 | 2.03E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.70E 00 | 4.70E 00 | 4.70E 00 |
| 6378 22            | 2.6653E 01  | 2.75E 00 | 1.02E 00 | 6.07E-01 | 1.02E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 3.10E 00 | 3.10E 00 | 3.10E 00 |
| 6378 23            | 2.9225E 01  | 3.09E 00 | 1.16E 00 | 6.70E-01 | 1.02E 00 | 3.30E 00 | 3.30E 00 | 3.30E 00 | 2.20E 01 | 2.20E 01 | 2.20E 01 | 2.20E 01 | 2.20E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.00E 00 | 4.00E 00 | 4.00E 00 |
| 6378 24            | 2.8443E 01  | 2.51E 00 | 9.94E-01 | 6.00E-01 | 1.02E 00 | 2.80E 00 | 2.80E 00 | 2.80E 00 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 |
| 6378 25            | 2.8879E 01  | 3.09E 00 | 1.14E 00 | 7.05E-01 | 1.02E 00 | 3.40E 00 | 3.40E 00 | 3.40E 00 | 2.00E 01 | 2.00E 01 | 2.00E 01 | 2.00E 01 | 2.00E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 |
| 6378 26            | 2.9002E 01  | 3.09E 00 | 1.13E 00 | 7.06E-01 | 1.02E 00 | 3.40E 00 | 3.40E 00 | 3.40E 00 | 2.00E 01 | 2.00E 01 | 2.00E 01 | 2.00E 01 | 2.00E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 |
| AVERAGE            |             | 2.97E 00 | 1.15E 00 | 7.04E-01 | 1.02E 00 | 3.17E 00 | 3.17E 00 | 3.17E 00 | 2.01E 01 | 2.01E 01 | 2.01E 01 | 2.01E 01 | 2.01E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 3.30E 00 | 3.30E 00 | 3.30E 00 |
| STD DEV            |             | 2.84E-01 | 1.04E-01 | 6.12E-02 | 1.02E-01 | 3.30E-01 | 3.30E-01 | 3.30E-01 | 1.12E 00 | 1.12E 00 | 1.12E 00 | 1.12E 00 | 1.12E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.00E-01 | 4.00E-01 | 4.00E-01 |
| STD ERROR          |             | 1.10E-01 | 1.17E-01 | 6.31E-02 | 1.02E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 5.58E-02 | 5.58E-02 | 5.58E-02 | 5.58E-02 | 5.58E-02 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.00E-01 | 2.00E-01 | 2.00E-01 |
| AVE SIG/2*NOISE    |             | 8.70E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 7.01E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.00E-01 | 2.00E-01 | 2.00E-01 |
| CENTER SEISMOMETER |             | 3.04E 00 | 1.01E 00 | 3.04E-01 | 1.02E 00 | 3.22E 00 | 3.22E 00 | 3.22E 00 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 1.90E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.00E 00 | 4.00E 00 | 4.00E 00 |
| SIGNIFICANCE       |             | 9.40E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.00E 00 | 4.00E 00 | 4.00E 00 |
| SIGNAL/2*NOISE     |             | 9.40E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 7.33E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.00E 00 | 4.00E 00 | 4.00E 00 |
| CALIBRATION        | 2.90894E 01 | 2.32E 00 | 7.15E-01 | 1.03E-01 | 9.00E-01 | 2.41E 00 | 2.41E 00 | 2.41E 00 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.91E 00 | 2.91E 00 | 2.91E 00 |
| UNPHASED SUM       |             | 2.32E 00 | 7.15E-01 | 1.03E-01 | 9.00E-01 | 2.41E 00 | 2.41E 00 | 2.41E 00 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.91E 00 | 2.91E 00 | 2.91E 00 |
| SIGNIFICANCE       |             | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.91E 00 | 2.91E 00 | 2.91E 00 |
| SIGNAL/2*NOISE     |             | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 1.21E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.91E 00 | 2.91E 00 | 2.91E 00 |
| CALIBRATION        | 2.88247E 01 | 2.32E 00 | 7.15E-01 | 1.03E-01 | 9.00E-01 | 2.41E 00 | 2.41E 00 | 2.41E 00 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 2.91E 00 | 2.91E 00 | 2.91E 00 |

## D4

| FROM (CPS)         | TO (CPS)    | 0        | .50      | 2.00     | .40      | 10.00    | 0        | RMS      | P-P      | SIG      | 0        | .50      | 2.00     | .40      | 10.00    | 0        | RMS      | P-P      | SIG      |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL            | CALIBRATION | 2.70E 00 | 1.04E 00 | 1.04E 00 | 1.04E 00 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| 6379 21            | 2.7007E 01  | 2.70E 00 | 1.04E 00 | 1.04E 00 | 1.04E 00 | 3.12E 00 | 3.12E 00 | 3.12E 00 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| 6379 22            | 2.7442E 01  | 3.35E 00 | 1.30E 00 | 7.81E-01 | 1.04E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| 6379 23            | 2.7563E 01  | 4.30E 00 | 1.53E 00 | 7.80E-01 | 1.04E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.11E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| 6379 24            | 2.7817E 01  | 2.86E 00 | 1.10E 00 | 4.70E-01 | 1.04E 00 | 3.00E 00 | 3.00E 00 | 3.00E 00 | 2.56E 01 | 2.56E 01 | 2.56E 01 | 2.56E 01 | 2.56E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| 6379 25            | 2.7839E 01  | 3.17E 00 | 1.11E 00 | 3.82E-01 | 1.04E 00 | 3.30E 00 | 3.30E 00 | 3.30E 00 | 2.73E 01 | 2.73E 01 | 2.73E 01 | 2.73E 01 | 2.73E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| 6379 26            | 2.8116E 01  | 3.14E 00 | 1.02E 00 | 4.60E-01 | 1.04E 00 | 3.61E 00 | 3.61E 00 | 3.61E 00 | 2.97E 01 | 2.97E 01 | 2.97E 01 | 2.97E 01 | 2.97E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| AVERAGE            |             | 3.14E 00 | 1.17E 00 | 6.44E-01 | 1.04E 00 | 3.61E 00 | 3.61E 00 | 3.61E 00 | 2.78E 01 | 2.78E 01 | 2.78E 01 | 2.78E 01 | 2.78E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| STD DEV            |             | 4.04E-01 | 2.00E-01 | 3.32E-01 | 1.04E-01 | 6.60E-01 | 6.60E-01 | 6.60E-01 | 6.41E 00 | 6.41E 00 | 6.41E 00 | 6.41E 00 | 6.41E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| STD ERROR          |             | 1.98E-01 | 1.70E-01 | 3.92E-01 | 1.04E-01 | 1.80E-01 | 1.80E-01 | 1.80E-01 | 2.30E-01 | 2.30E-01 | 2.30E-01 | 2.30E-01 | 2.30E-01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| AVE SIG/2*NOISE    |             | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 1.19E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| CENTER SEISMOMETER |             | 2.72E 00 | 1.04E 00 | 2.69E-01 | 1.04E 00 | 2.92E 00 | 2.92E 00 | 2.92E 00 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| SIGNIFICANCE       |             | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| SIGNAL/2*NOISE     |             | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 8.90E 00 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| CALIBRATION        | 2.84164E 01 | 2.72E 00 | 1.04E 00 | 2.69E-01 | 1.04E 00 | 2.92E 00 | 2.92E 00 | 2.92E 00 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| UNPHASED SUM       |             | 2.72E 00 | 1.04E 00 | 2.69E-01 | 1.04E 00 | 2.92E 00 | 2.92E 00 | 2.92E 00 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| SIGNIFICANCE       |             | 2.66E 00 | 5.88E-01 | 9.90E-02 | 1.02E 00 | 2.72E 00 | 2.72E 00 | 2.72E 00 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| SIGNAL/2*NOISE     |             | 2.66E 00 | 5.88E-01 | 9.90E-02 | 1.02E 00 | 2.72E 00 | 2.72E 00 | 2.72E 00 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 1.72E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |
| CALIBRATION        | 2.78773E 01 | 2.72E 00 | 1.04E 00 | 2.69E-01 | 1.04E 00 | 2.92E 00 | 2.92E 00 | 2.92E 00 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 1.89E 01 | 2.00E 00 | 2.00E 00 | 2.00E 00 | 4.10E 00 | 4.10E 00 | 4.10E 00 |





| FROM (CPS)          | 0         | .50       | 2.00      | .40       | 0         | RMS       | STD       |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TO (CPS)            | 1.50      | 2.00      | 5.00      | 2.20      | 10.00     | NOISE     | STD       |
| CHANNEL CALIBRATION |           |           |           |           |           |           |           |
| 6366 20             | 5.02E 00  | 1.34E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 6366 21             | 5.02E 00  | 1.47E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 6366 22             | 5.02E 00  | 1.47E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 6366 23             | 5.02E 00  | 1.47E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 6366 24             | 5.02E 00  | 1.47E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 6366 25             | 5.02E 00  | 1.47E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 6366 26             | 5.02E 00  | 1.47E 00  | 2.04E 00  | 1.03E 00  | 4.89E 00  | 4.89E 00  | 1.03E 01  |
| 4VERE 00            | 1.46E 00  | 1.34E 00  | 2.43E 00  | 1.58E 00  | 4.79E 00  | 4.79E 00  | 1.58E 01  |
| STD DEV             | 4.60E -01 | 1.47E -01 | 4.90E -01 | 3.06E -01 | 3.64E -01 | 3.64E -01 | 3.06E -01 |
| STD ERROR           | 1.40E -01 | 4.79E -02 | 2.35E -01 | 1.03E -02 | 5.06E -02 | 5.06E -02 | 1.03E -01 |
| AVE STD NOISE       | 1.40E 00  | 6.66E 00  | 5.02E 00  | 5.02E 00  | 5.02E 00  | 5.02E 00  | 5.02E 00  |
| CENTER SIGNOMETER   |           |           |           |           |           |           |           |
| SIGNIFICANCE        | 3.34E 00  | 1.17E 00  | 1.05E 00  | 1.45E 00  | 3.09E 00  | 3.09E 00  | 1.45E 01  |
| SIGNAL/NOISE        | LOW       | LOW       | LOW       | LOW       | LOW       | LOW       | LOW       |
| CALIBRATION         | 6.31E 00  | 6.31E 00  | 5.41E 00  | 5.41E 00  | 5.41E 00  | 5.41E 00  | 5.41E 01  |
| UNPHASED SUM        |           |           |           |           |           |           |           |
| SIGNIFICANCE        | 2.66E 00  | 6.95E -01 | 4.59E -01 | 8.30E -01 | 2.77E 00  | 2.77E 00  | 1.10E 01  |
| SIGNAL/NOISE        | LOW       | LOW       | LOW       | LOW       | LOW       | LOW       | LOW       |
| CALIBRATION         | 2.79E 01  | 8.40E 00  | 6.87E 00  | 6.87E 00  | 6.87E 00  | 6.87E 00  | 6.87E 01  |

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| FROM (CPS)  | 0        | 50      | 200    | 400     | 1000   | RMS     | 515     |
|-------------|----------|---------|--------|---------|--------|---------|---------|
| TO (CPS)    | 50       | 200     | 500    | 2000    | 10000  | NOISE   |         |
| CHANNEL     |          |         |        |         |        |         |         |
| CALIBRATION |          |         |        |         |        |         |         |
| 6408 21     | 670E 00  | 141E 00 | 40E 01 | 141E 00 | 60E 00 | 601E 00 | 632E 02 |
| 6408 22     | 703DE 01 | 124E 00 | 30E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 23     | 5124E 01 | 124E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 24     | 7152E 01 | 124E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 25     | 834E 00  | 120E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 26     | 7966E 01 | 120E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 27     | 900E 01  | 120E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 28     | 7132E 01 | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 29     | 637E 00  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 30     | 701E 00  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 31     | 105E 00  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 32     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 33     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 34     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 35     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 36     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 37     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 38     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 39     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 40     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 41     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 42     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 43     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 44     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 45     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 46     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 47     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 48     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 49     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 50     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 51     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 52     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 53     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 54     | 134E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 6408 55     | 924E 01  | 140E 00 | 40E 01 | 105E 00 | 14E 00 | 807E 00 | 632E 02 |
| 640         |          |         |        |         |        |         |         |



| F3                      |            |            |            |            |            |            |            |            |            |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| FROM (CPS)              | 0          | 10         | 20         | 30         | 40         | 50         | 60         | 70         | P-R        |
| TO (CPS)                | 0          | 10         | 20         | 30         | 40         | 50         | 60         | 70         | SIG        |
| CHANNEL CALIBRATION     |            |            |            |            |            |            |            |            |            |
| 5938 21                 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 |
| 5938 22                 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 |
| 5938 23                 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 |
| 5938 24                 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 |
| 5938 25                 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 |
| 5938 26                 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 | 2.5650E 01 |
| AVERAGE                 | 3.01E 00   | 3.01E 00   | 3.01E 00   | 3.01E 00   | 3.01E 00   | 3.01E 00   | 3.01E 00   | 3.01E 00   | 3.01E 00   |
| STD DEV                 | 1.61E-01   | 1.61E-01   | 1.61E-01   | 1.61E-01   | 1.61E-01   | 1.61E-01   | 1.61E-01   | 1.61E-01   | 1.61E-01   |
| STD ERROR               | 2.11E-01   | 2.11E-01   | 2.11E-01   | 2.11E-01   | 2.11E-01   | 2.11E-01   | 2.11E-01   | 2.11E-01   | 2.11E-01   |
| AVE SIG/2*NOISE         | 1.62E 02   | 1.62E 02   | 1.62E 02   | 1.62E 02   | 1.62E 02   | 1.62E 02   | 1.62E 02   | 1.62E 02   | 1.62E 02   |
| CENTER SEISMOMETER      |            |            |            |            |            |            |            |            |            |
| SIGNIFICANCE            | 3.06E 00   | 3.06E 00   | 3.06E 00   | 3.06E 00   | 3.06E 00   | 3.06E 00   | 3.06E 00   | 3.06E 00   | 3.06E 00   |
| SIGNAL/2*NOISE          | 1.35E 02   | 1.35E 02   | 1.35E 02   | 1.35E 02   | 1.35E 02   | 1.35E 02   | 1.35E 02   | 1.35E 02   | 1.35E 02   |
| CALIBRATION 2.69442E 01 |            |            |            |            |            |            |            |            |            |
| UNPHASED SUM            | 2.68E 00   | 2.68E 00   | 2.68E 00   | 2.68E 00   | 2.68E 00   | 2.68E 00   | 2.68E 00   | 2.68E 00   | 2.68E 00   |
| SIGNIFICANCE            | 1.62E-01   | 1.62E-01   | 1.62E-01   | 1.62E-01   | 1.62E-01   | 1.62E-01   | 1.62E-01   | 1.62E-01   | 1.62E-01   |
| SIGNAL/2*NOISE          | 2.13E 02   | 2.13E 02   | 2.13E 02   | 2.13E 02   | 2.13E 02   | 2.13E 02   | 2.13E 02   | 2.13E 02   | 2.13E 02   |
| CALIBRATION 2.66110E 01 |            |            |            |            |            |            |            |            |            |

| F4                      |             |             |             |             |             |             |             |             |             |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FROM (CPS)              | 0           | 10          | 20          | 30          | 40          | 50          | 60          | 70          | P-R         |
| TO (CPS)                | 0           | 10          | 20          | 30          | 40          | 50          | 60          | 70          | SIG         |
| CHANNEL CALIBRATION     |             |             |             |             |             |             |             |             |             |
| 5940 21                 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 |
| 5940 22                 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 |
| 5940 23                 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 |
| 5940 24                 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 |
| 5940 25                 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 |
| 5940 26                 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 | 2.69530E 01 |
| AVERAGE                 | 3.01E 00    | 3.01E 00    | 3.01E 00    | 3.01E 00    | 3.01E 00    | 3.01E 00    | 3.01E 00    | 3.01E 00    | 3.01E 00    |
| STD DEV                 | 1.61E-01    | 1.61E-01    | 1.61E-01    | 1.61E-01    | 1.61E-01    | 1.61E-01    | 1.61E-01    | 1.61E-01    | 1.61E-01    |
| STD ERROR               | 2.11E-01    | 2.11E-01    | 2.11E-01    | 2.11E-01    | 2.11E-01    | 2.11E-01    | 2.11E-01    | 2.11E-01    | 2.11E-01    |
| AVE SIG/2*NOISE         | 1.62E 02    | 1.62E 02    | 1.62E 02    | 1.62E 02    | 1.62E 02    | 1.62E 02    | 1.62E 02    | 1.62E 02    | 1.62E 02    |
| CENTER SEISMOMETER      |             |             |             |             |             |             |             |             |             |
| SIGNIFICANCE            | 3.06E 00    | 3.06E 00    | 3.06E 00    | 3.06E 00    | 3.06E 00    | 3.06E 00    | 3.06E 00    | 3.06E 00    | 3.06E 00    |
| SIGNAL/2*NOISE          | 1.35E 02    | 1.35E 02    | 1.35E 02    | 1.35E 02    | 1.35E 02    | 1.35E 02    | 1.35E 02    | 1.35E 02    | 1.35E 02    |
| CALIBRATION 2.69442E 01 |             |             |             |             |             |             |             |             |             |
| UNPHASED SUM            | 2.68E 00    | 2.68E 00    | 2.68E 00    | 2.68E 00    | 2.68E 00    | 2.68E 00    | 2.68E 00    | 2.68E 00    | 2.68E 00    |
| SIGNIFICANCE            | 1.62E-01    | 1.62E-01    | 1.62E-01    | 1.62E-01    | 1.62E-01    | 1.62E-01    | 1.62E-01    | 1.62E-01    | 1.62E-01    |
| SIGNAL/2*NOISE          | 2.13E 02    | 2.13E 02    | 2.13E 02    | 2.13E 02    | 2.13E 02    | 2.13E 02    | 2.13E 02    | 2.13E 02    | 2.13E 02    |
| CALIBRATION 2.66110E 01 |             |             |             |             |             |             |             |             |             |

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| FROM (CRS)          | 50       | 2.00     | 2.00     | 4.0      | 10.00    | NOISE    | 8MS      | P-SIG |
|---------------------|----------|----------|----------|----------|----------|----------|----------|-------|
| CHANNEL CALIBRATION |          |          |          |          |          |          |          |       |
| 5942 21             | 2.99E 00 | 1.75E 00 | 7.40E-01 | 2.12E 00 | 3.55E 00 | 3.56E 00 | 4.37E 02 |       |
| 5942 22             | 2.6310E  | 1.90E 00 | 7.40E-01 | 2.06E 00 | 3.55E 00 | 3.56E 00 | 4.37E 02 |       |
| 5942 23             | 2.6444E  | 1.86E 00 | 5.72E-01 | 2.02E 00 | 3.55E 00 | 3.56E 00 | 4.37E 02 |       |
| 5942 24             | 2.6556E  | 1.86E 00 | 5.72E-01 | 1.99E 00 | 3.55E 00 | 3.56E 00 | 4.44E 02 |       |
| 5942 25             | 2.6857E  | 1.87E 00 | 6.13E-01 | 1.77E 00 | 2.88E 00 | 2.88E 00 | 4.58E 02 |       |
| 5942 26             | 2.7155E  | 1.87E 00 | 6.13E-01 | 1.77E 00 | 2.88E 00 | 2.88E 00 | 4.58E 02 |       |
| 5942 27             | 2.7559E  | 1.87E 00 | 6.13E-01 | 1.77E 00 | 2.88E 00 | 2.88E 00 | 4.58E 02 |       |
| 5942 28             | 2.8240E  | 1.72E 00 | 6.46E-01 | 2.04E 00 | 3.55E 00 | 3.55E 00 | 4.59E 02 |       |
| 5942 29             | 2.8450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 30             | 2.8550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 31             | 2.8650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 32             | 2.8750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 33             | 2.8850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 34             | 2.8950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 35             | 2.9050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 36             | 2.9150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 37             | 2.9250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 38             | 2.9350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 39             | 2.9450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 40             | 2.9550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 41             | 2.9650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 42             | 2.9750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 43             | 2.9850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 44             | 2.9950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 45             | 3.0050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 46             | 3.0150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 47             | 3.0250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 48             | 3.0350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 49             | 3.0450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 50             | 3.0550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 51             | 3.0650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 52             | 3.0750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 53             | 3.0850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 54             | 3.0950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 55             | 3.1050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 56             | 3.1150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 57             | 3.1250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 58             | 3.1350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 59             | 3.1450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 60             | 3.1550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 61             | 3.1650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 62             | 3.1750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 63             | 3.1850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 64             | 3.1950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 65             | 3.2050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 66             | 3.2150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 67             | 3.2250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 68             | 3.2350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 69             | 3.2450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 70             | 3.2550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 71             | 3.2650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 72             | 3.2750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 73             | 3.2850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 74             | 3.2950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 75             | 3.3050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 76             | 3.3150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 77             | 3.3250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 78             | 3.3350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 79             | 3.3450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 80             | 3.3550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 81             | 3.3650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 82             | 3.3750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 83             | 3.3850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 84             | 3.3950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 85             | 3.4050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 86             | 3.4150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 87             | 3.4250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 88             | 3.4350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 89             | 3.4450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 90             | 3.4550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 91             | 3.4650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 92             | 3.4750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 93             | 3.4850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 94             | 3.4950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 95             | 3.5050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 96             | 3.5150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 97             | 3.5250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 98             | 3.5350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 99             | 3.5450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 100            | 3.5550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 101            | 3.5650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 102            | 3.5750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 103            | 3.5850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 104            | 3.5950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 105            | 3.6050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 106            | 3.6150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 107            | 3.6250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 108            | 3.6350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 109            | 3.6450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 110            | 3.6550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 111            | 3.6650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 112            | 3.6750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 113            | 3.6850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 114            | 3.6950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 115            | 3.7050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 116            | 3.7150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 117            | 3.7250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 118            | 3.7350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 119            | 3.7450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 120            | 3.7550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 121            | 3.7650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 122            | 3.7750E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 123            | 3.7850E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 124            | 3.7950E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 125            | 3.8050E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 126            | 3.8150E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 127            | 3.8250E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 128            | 3.8350E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 129            | 3.8450E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 130            | 3.8550E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 131            | 3.8650E  | 1.64E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 1.72E-01 | 3.55E 00 |       |
| 5942 132            |          |          |          |          |          |          |          |       |



[illegible]

[illegible]



| E1                     |            | P-P      |          | RMS      |          | P-P      |          |
|------------------------|------------|----------|----------|----------|----------|----------|----------|
| FROM (CPS)             | TO (CPS)   | 2.00     | 2.20     | 2.00     | 2.20     | 2.00     | 2.20     |
| CHANNEL CALIBRATION    |            | RMS      |          | NOISE    |          | RMS      |          |
| 5955 21                | 2.7674E 01 | 5.72E 00 | 1.01E 00 | 3.02E 00 | 6.32E 00 | 6.32E 00 | 5.64E 02 |
| 5955 22                | 2.6433E 01 | 5.37E 00 | 1.88E 00 | 2.01E 00 | 4.40E 00 | 4.40E 00 | 5.68E 02 |
| 5955 23                | 2.7044E 01 | 4.48E 00 | 1.42E 00 | 1.26E 00 | 5.00E 00 | 5.00E 00 | 5.70E 02 |
| 5955 24                | 2.8332E 01 | 3.32E 00 | 2.23E 00 | 2.19E 00 | 3.72E 00 | 3.72E 00 | 5.54E 02 |
| 5955 25                | 2.6525E 01 | 3.95E 00 | 1.47E 00 | 1.16E 00 | 3.43E 00 | 3.43E 00 | 5.62E 02 |
| 5955 26                | 2.6715E 01 | 3.08E 00 | 2.10E 00 | 2.31E 00 | 4.42E 00 | 4.42E 00 | 5.75E 02 |
| AVERAGE                |            | 1.72E 00 | 1.02E 00 | 1.45E 00 | 1.12E 00 | 1.12E 00 | 2.70E 01 |
| STD DEV                |            | 2.12E 01 | 2.08E 01 | 2.08E 01 | 2.12E 01 | 2.12E 01 | 4.46E 01 |
| STD ERROR              |            | 1.37E 02 | 1.37E 02 | 1.25E 02 |          |          |          |
| AVE SIG/2*NOISE        |            |          |          |          |          |          |          |
| CENTER SEISMOGRAPH     |            |          |          |          |          |          |          |
| SIGNIFICANCE           |            |          |          |          |          |          |          |
| SIGNAL/2*NOISE         |            |          |          |          |          |          |          |
| CALIBRATION 2.6588E 01 |            |          |          |          |          |          |          |
| UNPHASED SUM           |            |          |          |          |          |          |          |
| SIGNIFICANCE           |            |          |          |          |          |          |          |
| SIGNAL/2*NOISE         |            |          |          |          |          |          |          |
| CALIBRATION 2.6488E 01 |            |          |          |          |          |          |          |

| FROM (C/S)     | TO (C/S)    | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHANNEL        | CALIBRATION | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3957 21        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3957 22        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3957 23        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3957 24        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3957 25        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 3957 26        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| AVERAGE        | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| STD DEVI       | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| STD ERROR      | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| AVE SIG2+NOISE | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| CENTER BEARER  | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| SIGNIFICANCE   | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| SIGNAL/NOISE   | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| CALIBRATION    | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| UNPHASED SIN   | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| SIGNIFICANCE   | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| SIGNAL/NOISE   | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| CALIBRATION    | 27350       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

[illegible]



## F3

| FROM (CPS)         | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
|                    |             |          |          |          |          |          | NOISE    | SIG      |
| CHANNEL            | CALIBRATION |          |          |          |          |          |          |          |
| 6410 21            | 2.5955E 01  | 3.00E 00 | 9.44E-01 | 5.47E-01 | 1.08E 00 | 3.19E 00 | 3.09E 00 | 1.42E 01 |
| 6410 22            | 2.7393E 01  | 3.46E 00 | 9.42E-01 | 7.32E-01 | 1.22E 00 | 3.46E 00 | 3.09E 00 | 1.42E 01 |
| 6410 23            | 2.5200E 01  | 3.00E 00 | 8.42E-01 | 7.32E-01 | 1.22E 00 | 3.46E 00 | 3.09E 00 | 1.42E 01 |
| 6410 24            | 2.6975E 01  | 3.46E 00 | 9.42E-01 | 5.47E-01 | 1.08E 00 | 3.19E 00 | 3.09E 00 | 1.42E 01 |
| 6410 25            | 2.6975E 01  | 3.46E 00 | 9.42E-01 | 5.47E-01 | 1.08E 00 | 3.19E 00 | 3.09E 00 | 1.42E 01 |
| 6410 26            | 2.6975E 01  | 3.46E 00 | 9.42E-01 | 5.47E-01 | 1.08E 00 | 3.19E 00 | 3.09E 00 | 1.42E 01 |
| AVERAGE            |             | 3.40E 00 | 9.42E-01 | 5.47E-01 | 1.21E 00 | 3.49E 00 | 3.09E 00 | 1.37E 01 |
| STD DEV            |             | 9.42E-01 | 1.62E-01 | 3.46E-01 | 1.61E-01 | 3.46E-01 | 3.46E-01 | 3.46E 00 |
| STD ERROR          |             | 1.56E-01 | 1.56E-01 | 1.56E-01 | 1.56E-01 | 1.56E-01 | 1.56E-01 | 2.62E-01 |
| AVE SIG/2*NOISE    |             | 8.02E 00 |          |          | 6.49E 00 |          |          |          |
| CENTER SEISMOMETER |             | 3.43E 00 | 9.44E-01 | 3.46E-01 | 1.17E 00 | 3.46E 00 | 3.46E 00 | 1.60E 01 |
| SIGNAL/2*NOISE     |             |          | SAME     | LOW      |          | SAME     | SAME     | SAME     |
| CALIBRATION        | 2.69442E 01 |          | 8.42E 00 |          | 6.87E 00 |          |          |          |
| UNPHASED SUM       |             | 2.55E 00 | 6.81E-01 | 1.22E-01 | 7.44E-01 | 2.44E 00 | 2.44E 00 | 1.15E 01 |
| SIGNAL/2*NOISE     |             |          | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION        | 2.66110E 01 |          | 8.44E 00 |          | 7.73E 00 |          |          |          |

## F4

| FROM (CPS)         | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
|                    |             |          |          |          |          |          | NOISE    | SIG      |
| CHANNEL            | CALIBRATION |          |          |          |          |          |          |          |
| 6411 21            | 2.6955E 01  | 2.55E 00 | 9.42E-01 | 5.47E-01 | 1.30E 00 | 2.43E 00 | 3.09E 00 | 1.90E 01 |
| 6411 22            | 2.9331E 01  | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| 6411 23            | 2.4020E 01  | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| 6411 24            | 2.5020E 01  | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| 6411 25            | 2.9443E 01  | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| 6411 26            | 2.7920E 01  | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| AVERAGE            |             | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| STD DEV            |             | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| STD ERROR          |             | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| AVE SIG/2*NOISE    |             | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| CENTER SEISMOMETER |             | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| SIGNAL/2*NOISE     |             | 3.46E 00 | 1.42E 00 | 4.97E-01 | 1.76E 00 | 3.46E 00 | 3.09E 00 | 3.46E 00 |
| CALIBRATION        | 2.69442E 01 |          | 8.42E 00 |          | 6.87E 00 |          |          |          |
| UNPHASED SUM       |             | 2.55E 00 | 6.81E-01 | 1.22E-01 | 7.44E-01 | 2.44E 00 | 2.44E 00 | 1.15E 01 |
| SIGNAL/2*NOISE     |             |          | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION        | 2.66110E 01 |          | 8.44E 00 |          | 7.73E 00 |          |          |          |

## B1

| FROM (CPS)         | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
|                    |             |          |          |          |          |          | NOISE    | SIG      |
| CHANNEL            | CALIBRATION |          |          |          |          |          |          |          |
| 6409 21            | 2.7702E 01  | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| 6409 22            | 2.7610E 01  | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| 6409 23            | 2.8619E 01  | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| 6409 24            | 2.8122E 01  | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| 6409 25            | 3.0008E 01  | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| 6409 26            | 2.7995E 01  | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| AVERAGE            |             | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| STD DEV            |             | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| STD ERROR          |             | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| AVE SIG/2*NOISE    |             | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| CENTER SEISMOMETER |             | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| SIGNAL/2*NOISE     |             | 3.43E 00 | 1.42E 00 | 3.33E-01 | 1.68E 00 | 3.43E 00 | 3.09E 00 | 1.91E 01 |
| CALIBRATION        | 2.8934E 01  |          | 7.75E 00 |          | 5.31E 00 |          |          |          |
| UNPHASED SUM       |             | 2.55E 00 | 6.81E-01 | 1.22E-01 | 7.44E-01 | 2.44E 00 | 2.44E 00 | 1.15E 01 |
| SIGNAL/2*NOISE     |             |          | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |
| CALIBRATION        | 2.8339E 01  |          | 7.91E 00 |          | 5.26E 00 |          |          |          |

SEISMORAMS 6409-6429 30 DECEMBER 1965

NOISE SAMPLE 51.2 SECONDS STARTING AT 03:08:32.0 GMT

## SEISMIC SIGNAL

ORIGIN TIME

03:02:59.2 GMT

EPICENTER

51.4° N, 160.2° W ALASKA PENINSULA

AO ARRIVAL TIME

03:09:42.0 GMT

AQ[illegible]358

| FROM (CPS) | TO (CPS)    | 0        | 50       | 200      | 500      | 1000     | 2000     | 5000     | 10000    | NOISE    | RMS      | SIG.     |
|------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CHANNEL    | CALIBRATION |          |          |          |          |          |          |          |          |          |          |          |
| 6433 20    | 2.6005E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 21    | 2.6444E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 22    | 2.6885E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 23    | 2.7326E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 24    | 2.7767E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 25    | 2.8208E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 26    | 2.8649E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 27    | 2.9090E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 28    | 2.9531E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 29    | 2.9972E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 30    | 3.0413E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 31    | 3.0854E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 32    | 3.1295E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 33    | 3.1736E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 34    | 3.2177E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 35    | 3.2618E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 36    | 3.3059E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 37    | 3.3500E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 38    | 3.3941E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 39    | 3.4382E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.45E 01 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 00 | 1.45E 01 | 1.45E 01 |
| 6433 40    | 3.4823E 01  | 1.45E 00 | 1.45E 01 | 1.45E 01 | 1.4      |          |          |          |          |          |          |          |

3[illegible]84

| FROM (CP) | TO (CP)     | 0 | 50 | 100 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 | 3000 | 3050 | 3100 | 3150 | 3200 | 3250 | 3300 | 3350 | 3400 | 3450 | 3500 | 3550 | 3600 | 3650 | 3700 | 3750 | 3800 | 3850 | 3900 | 3950 | 4000 | 4050 | 4100 | 4150 | 4200 | 4250 | 4300 | 4350 | 4400 | 4450 | 4500 | 4550 | 4600 | 4650 | 4700 | 4750 | 4800 | 4850 | 4900 | 4950 | 5000 | 5050 | 5100 | 5150 | 5200 | 5250 | 5300 | 5350 | 5400 | 5450 | 5500 | 5550 | 5600 | 5650 | 5700 | 5750 | 5800 | 5850 | 5900 | 5950 | 6000 | 6050 | 6100 | 6150 | 6200 | 6250 | 6300 | 6350 | 6400 | 6450 | 6500 | 6550 | 6600 | 6650 | 6700 | 6750 | 6800 | 6850 | 6900 | 6950 | 7000 | 7050 | 7100 | 7150 | 7200 | 7250 | 7300 | 7350 | 7400 | 7450 | 7500 | 7550 | 7600 | 7650 | 7700 | 7750 | 7800 | 7850 | 7900 | 7950 | 8000 | 8050 | 8100 | 8150 | 8200 | 8250 | 8300 | 8350 | 8400 | 8450 | 8500 | 8550 | 8600 | 8650 | 8700 | 8750 | 8800 | 8850 | 8900 | 8950 | 9000 | 9050 | 9100 | 9150 | 9200 | 9250 | 9300 | 9350 | 9400 | 9450 | 9500 | 9550 | 9600 | 9650 | 9700 | 9750 | 9800 | 9850 | 9900 | 9950 | 10000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|-------------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CHANNEL   | CALIBRATION | 0 | 50 | 100 | 200 | 250 | 300 |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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FROM (CPS)  
TO (CPS)

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|            |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |
|------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| FROM (CSE) | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| TO (CSE)   | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| NAME       | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| CALL SIGN  | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 01         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 02         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 03         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 04         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 05         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 06         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 07         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 08         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 09         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 10         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 11         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 12         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 13         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 14         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 15         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 16         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 17         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 18         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 19         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 20         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 21         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 22         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 23         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 24         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 25         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 26         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 27         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 28         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 29         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 30         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 31         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 32         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 33         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 34         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 35         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 36         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 37         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 38         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 39         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 40         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 41         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 42         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 43         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 44         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 45         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 46         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 47         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 48         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 49         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 50         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 51         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 52         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 53         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 54         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 55         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 56         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 57         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 58         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 59         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 60         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 61         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 62         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 63         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 64         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 65         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 66         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 67         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 68         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 69         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 70         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 71         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 72         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 73         | 0 | 150 | 200 | 250 | 300 | 350 | 400 | 45  |     |     |     |     |     |     |     |     |     |     |      |



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|    |    |   |     |
|----|----|---|-----|
| 00 | 00 | 3 | 98E |
| 00 | 00 | 3 | 98E |
| 00 | 00 | 4 | 10E |
| 00 | 00 | 4 | 10E |
| 00 | 00 | 4 | 28E |

|     |       |
|-----|-------|
| 00  | 4.09E |
| -01 | 1.48E |
| 01  | 1.42E |

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|    |       |
|----|-------|
| 00 | 3.09E |
| 01 |       |

2000 60

| S  | P = p |
|----|-------|
| 00 | 3.51E |
| 00 | 3.39E |
| 00 | 3.09E |
| 00 | 2.25E |

|    |       |
|----|-------|
| 00 | 3,78E |
| 00 | 3,31E |
| 00 | 3,47E |
| 00 | 3,85E |
| 00 | 3,76E |
| 00 | 3,76E |
| 00 | 4,15E |
| 00 | 3,85E |
| 00 | 4,16E |

|    |       |
|----|-------|
| 00 | 4.41E |
| 00 | 3.74E |
| 00 | 3.09E |
| 00 | 4.02E |
| 00 | 3.68E |
| 00 | 3.55E |
| 00 | 3.27E |
| 00 | 2.53E |
| 00 | 3.40E |

|    |       |
|----|-------|
| 00 | 3.54E |
| 01 | 5.79E |
| 02 | 1.02E |
| 00 | 3.00E |
| 01 | 5.79E |
| 02 | 1.02E |

00 2,39E

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | [ | \ | ] | ^ | _ | ` | { |  | } | ~ | DEL | SPC | CR | LF | FF | VT | HT | BT | BS | BS2 | BS4 | BS8 | BS16 | BS32 | BS64 | BS128 | BS256 | BS512 | BS1024 | BS2048 | BS4096 | BS8192 | BS16384 | BS32768 | BS65536 | BS131072 | BS262144 | BS524288 | BS1048576 | BS2097152 | BS4194304 | BS8388608 | BS16777216 | BS33554432 | BS67108864 | BS134217728 | BS268435456 | BS536870912 | BS1073741824 | BS2147483648 | BS4294967296 | BS8589934592 | BS17179869184 | BS34359738368 | BS68719476736 | BS137438953472 | BS274877906944 | BS549755813888 | BS1099511627776 | BS2199023255552 | BS4398046511104 | BS8796093022208 | BS17592186044416 | BS35184372088832 | BS70368744177664 | BS140737488355328 | BS281474976710656 | BS562949953421312 | BS1125899906842624 | BS2251799813685248 | BS4503599627370496 | BS9007199254740992 | BS18014398509481984 | BS36028797018963968 | BS72057594037927936 | BS144115188075855872 | BS288230376151711744 | BS576460752303423488 | BS1152921504606846976 | BS2305843009213693952 | BS4611686018427387904 | BS9223372036854775808 | BS18446744073709551616 | BS36893488147419103232 | BS73786976294838206464 | BS147573952589676412928 | BS295147905179352825856 | BS590295810358705651712 | BS1180591620717411303424 | BS2361183241434822606848 | BS4722366482869645213696 | BS9444732965739290427392 | BS18889465931478580854784 | BS37778931862957161709568 | BS75557863725914323419136 | BS151115727451828646838272 | BS302231454903657293676544 | BS604462909807314587353088 | BS1208925819614629174706176 | BS2417851639229258349412352 | BS4835703278458516698824704 | BS9671406556917033397649408 | BS19342813113834066795298816 | BS38685626227668133590597632 | BS77371252455336267181195264 | BS154742504910672534362390528 | BS309485009821345068724781056 | BS618970019642690137449562112 | BS1237940039285380274899124224 | BS2475880078570760549798248448 | BS4951760157141521099596496896 | BS9903520314283042199192993792 | BS19807040628566084398385987584 | BS39614081257132168796771975168 | BS79228162514264337593543950336 | BS158456325028528675187087900672 | BS316912650057057350374175801344 | BS633825300114114700748351602688 | BS1267650600228229401496703205376 | BS2535301200456458802993406410752 | BS5070602400912917605986812821504 | BS10141204801825835211973625643008 | BS20282409603651670423947251286016 | BS40564819207303340847894502572032 | BS81129638414606681695789005144064 | BS162259276829213363391578010288128 | BS324518553658426726783156020576256 | BS649037107316853453566312041152512 | BS1298074214633706907132624082305024 | BS2596148429267413814265248164610048 | BS5192296858534827628530496329220096 | BS10384593717069655257060992658440192 | BS20769187434139310514121985316880384 | BS41538374868278621028243970633760768 | BS83076749736557242056487941267521536 | BS166153499473114484112975882535043072 | BS332306998946228968225951765070086144 | BS664613997892457936451903530140172288 | BS1329227995784915872903807060280344576 | BS2658455991569831745807614120560689152 | BS5316911983139663491615228241121378304 | BS10633823966279326983230456482242756608 | BS21267647932558653966460912964485513216 | BS42535295865117307932921825928971026432 | BS85070591730234615865843651857942052864 | BS170141183460469231731687303715884105216 | BS340282366920938463463374607431768210432 | BS680564733841876926926749214863536420864 | BS1361129467683753853853498429727072841728 | BS272225893536750770770699685945414568352 | BS544451787073501541541399371890829136704 | BS1088903574147003083082798743781658273408 | BS2177807148294006166165597487563316546816 | BS4355614296588012332331194975126633093632 | BS8711228593176024664662389950253266187264 | BS1742245718635204932932477990050652374528 | BS3484491437270409865864955980101304749056 | BS69 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|-----|-----|----|----|----|----|----|----|----|-----|-----|-----|------|------|------|-------|-------|-------|--------|--------|--------|--------|---------|---------|---------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|---|---|---|--|--|--|--|---|---|---|--|---|---|--|--|--|--|--|--|------|
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## 04

[illegible][illegible]

## 20

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| FROM (CS) | TO (CS) | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 | 3000 | 3050 | 3100 | 3150 | 3200 | 3250 | 3300 | 3350 | 3400 | 3450 | 3500 | 3550 | 3600 | 3650 | 3700 | 3750 | 3800 | 3850 | 3900 | 3950 | 4000 | 4050 | 4100 | 4150 | 4200 | 4250 | 4300 | 4350 | 4400 | 4450 | 4500 | 4550 | 4600 | 4650 | 4700 | 4750 | 4800 | 4850 | 4900 | 4950 | 5000 | 5050 | 5100 | 5150 | 5200 | 5250 | 5300 | 5350 | 5400 | 5450 | 5500 | 5550 | 5600 | 5650 | 5700 | 5750 | 5800 | 5850 | 5900 | 5950 | 6000 | 6050 | 6100 | 6150 | 6200 | 6250 | 6300 | 6350 | 6400 | 6450 | 6500 | 6550 | 6600 | 6650 | 6700 | 6750 | 6800 | 6850 | 6900 | 6950 | 7000 | 7050 | 7100 | 7150 | 7200 | 7250 | 7300 | 7350 | 7400 | 7450 | 7500 | 7550 | 7600 | 7650 | 7700 | 7750 | 7800 | 7850 | 7900 | 7950 | 8000 | 8050 | 8100 | 8150 | 8200 | 8250 | 8300 | 8350 | 8400 | 8450 | 8500 | 8550 | 8600 | 8650 | 8700 | 8750 | 8800 | 8850 | 8900 | 8950 | 9000 | 9050 | 9100 | 9150 | 9200 | 9250 | 9300 | 9350 | 9400 | 9450 | 9500 | 9550 | 9600 | 9650 | 9700 | 9750 | 9800 | 9850 | 9900 | 9950 | 10000 |
|-----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| FROM (CS) | TO (CS) | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 | 3000 | 3050 | 3100 | 3150 | 3200 | 3250 | 3300 | 3350 | 3400 | 3450 | 3500 | 3550 | 3600 | 3650 | 3700 | 3750 | 3800 | 3850 | 3900 | 3950 | 4000 | 4050 | 4100 | 4150 | 4200 | 4250 | 4300 | 4350 | 4400 | 4450 | 4500 | 4550 | 4600 | 4650 | 4700 | 4750 | 4800 | 4850 | 4900 | 4950 | 5000 | 5050 | 5100 | 5150 | 5200 | 5250 | 5300 | 5350 | 5400 | 5450 | 5500 | 5550 | 5600 | 5650 | 5700 | 5750 | 5800 | 5850 | 5900 | 5950 | 6000 | 6050 | 6100 | 6150 | 6200 | 6250 | 6300 | 6350 | 6400 | 6450 | 6500 | 6550 | 6600 | 6650 | 6700 | 6750 | 6800 | 6850 | 6900 | 6950 | 7000 | 7050 | 7100 | 7150 | 7200 | 7250 | 7300 | 7350 | 7400 | 7450 | 7500 | 7550 | 7600 | 7650 | 7700 | 7750 | 7800 | 7850 | 7900 | 7950 | 8000 | 8050 | 8100 | 8150 | 8200 | 8250 | 8300 | 8350 | 8400 | 8450 | 8500 | 8550 | 8600 | 8650 | 8700 | 8750 | 8800 | 8850 | 8900 | 8950 | 9000 | 9050 | 9100 | 9150 | 9200 | 9250 | 9300 | 9350 | 9400 | 9450 | 9500 | 9550 | 9600 | 9650 | 9700 | 9750 | 9800 | 9850 | 9900 | 9950 | 10000 |
| FROM (CS) | TO (CS) | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |













| D3              |             | FROM (CPS) |      | TO (CPS) |      | P-P  |      | RMS  |      | SIG  |      | RMS  |      | SIG  |      |
|-----------------|-------------|------------|------|----------|------|------|------|------|------|------|------|------|------|------|------|
|                 |             | 2.00       |      | 2.20     |      | 2.40 |      | 2.60 |      | 2.80 |      | 3.00 |      | 3.20 |      |
|                 |             | 2.00       |      | 2.20     |      | 2.40 |      | 2.60 |      | 2.80 |      | 3.00 |      | 3.20 |      |
| CHANNEL         | CALIBRATION | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| 5970 21         | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| 5970 22         | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| 5970 23         | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| 5970 24         | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| 5970 25         | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| 5970 26         | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| AVERAGE         |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| STD DEV         |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| STD ERROR       |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| AVE SIG/2/NOISE |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| CENTER SECTOR   |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| SIGNIFICANCE    |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| SIGNAL/2/NOISE  |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| CALIBRATION     | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| UNPHASED SUM    |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| SIGNIFICANCE    |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| SIGNAL/2/NOISE  |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| CALIBRATION     | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 | 4.80 |
| UNPHASED SUM    |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| SIGNIFICANCE    |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| SIGNAL/2/NOISE  |             | 2.00       | 2.20 | 2.40     | 2.60 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |
| CALIBRATION     | 2.00        | 2.20       | 2.40 | 2.60     | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.00 | 4.20 | 4.40 | 4.60 |      |





2901 (593)  
40 (593)

STD DEV  
STD ERROR  
AVE SIG/2 NOISE

SIGNAL/2 NOISE  
CALIBRATION 2.

FROM (CPS)  
TO (CPS)

AVERAGE  
SYN NEW

SIGNAL/NOISE  
SIGNAL/2σNOISE  
CALIBRATION 2.6











[illegible]



| E1                  |          |      |      |      |       |      |      |      |       | E4   |      |      |       |      |      |      |       |      |      |
|---------------------|----------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|
| FROM (CPS)          | TO (CPS) | 2.00 | 2.00 | 2.40 | 10.00 | RMS  | 5-P  | SIG  | 0     | 2.00 | 2.00 | 2.40 | 10.00 | RMS  | 5-P  | SIG  | 0     | 2.00 | 2.00 |
| FROM (CPS)          | TO (CPS) | 2.00 | 2.00 | 2.40 | 10.00 | RMS  | 5-P  | SIG  | 0     | 2.00 | 2.00 | 2.40 | 10.00 | RMS  | 5-P  | SIG  | 0     | 2.00 | 2.00 |
| CHANNEL CALIBRATION |          |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |
| 5707 21             | 5708 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5708 21             | 5709 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5709 21             | 5710 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5710 21             | 5711 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5711 21             | 5712 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5712 21             | 5713 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5713 21             | 5714 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5714 21             | 5715 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5715 21             | 5716 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5716 21             | 5717 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5717 21             | 5718 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5718 21             | 5719 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5719 21             | 5720 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5720 21             | 5721 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5721 21             | 5722 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5722 21             | 5723 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 |
| 5723 21             | 5724 21  | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 | 10.00 | 2.00 | 2.00 | 2.40 |       |      |      |

[illegible]

| FROM<br>TO | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 23 |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|



More Subarray B1 - Submonotom not available.













E2

| FROM (PS) | TO (PS) | 0 | 10 | 200 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | 32000 | 64000 | 128000 | 256000 | 512000 | 1024000 | 2048000 | 4096000 | 8192000 | 16384000 | 32768000 | 65536000 | 131072000 | 262144000 | 524288000 | 1048576000 | 2097152000 | 4194304000 | 8388608000 | 16777216000 | 33554432000 | 67108864000 | 134217728000 | 268435456000 | 536870912000 | 1073741824000 | 2147483648000 | 4294967296000 | 8589934592000 | 17179869184000 | 34359738368000 | 68719476736000 | 137438953472000 | 274877906944000 | 549755813888000 | 1099511627776000 | 2199023255552000 | 4398046511104000 | 8796093022208000 | 17592186044416000 | 35184372088832000 | 70368744177664000 | 140737488355328000 | 281474976710656000 | 562949953421312000 | 1125899906842624000 | 2251799813685248000 | 4503599627370496000 | 9007199254740992000 | 18014398509481984000 | 36028797018963968000 | 72057594037927936000 | 144115188075855872000 | 288230376151711744000 | 576460752303423488000 | 1152921504606846976000 | 2305843009213693952000 | 4611686018427387904000 | 9223372036854775808000 | 18446744073709551616000 | 36893488147419103232000 | 73786976294838206464000 | 147573952589676412928000 | 295147905179352825856000 | 590295810358705651712000 | 1180591620717411303424000 | 2361183241434822606848000 | 4722366482869645213696000 | 9444732965739290427392000 | 18889465931478580854784000 | 37778931862957161709568000 | 75557863725914323419136000 | 151115727451828646838272000 | 302231454903657293676544000 | 604462909807314587353088000 | 1208925819614629174706176000 | 2417851639229258349412352000 | 4835703278458516698824704000 | 9671406556917033397649408000 | 19342813113834066795298816000 | 38685626227668133590597632000 | 77371252455336267181195264000 | 154742504910672534362390528000 | 309485009821345068724781056000 | 618970019642690137449562112000 | 1237940039285380274899124224000 | 2475880078570760549798248448000 | 4951760157141521099596496896000 | 9903520314283042199192993792000 | 19807040628566084398385987584000 | 39614081257132168796771975168000 | 79228162514264337593543950336000 | 158456325028528675187087900672000 | 316912650057057350374175801344000 | 633825300114114700748351602688000 | 1267650600228229401496703205376000 | 2535301200456458802993406410752000 | 5070602400912917605986812821504000 | 10141204801825835211973625643008000 | 20282409603651670423947251286016000 | 40564819207303340847894502572032000 | 81129638414606681695789005144064000 | 162259276829213363391578010288128000 | 324518553658426726783156020576256000 | 649037107316853453566312041152512000 | 1298074214633706907132624082305024000 | 2596148429267413814265248164610048000 | 5192296858534827628530496329220096000 | 10384593717069655257060992658440192000 | 20769187434139310514121985316880384000 | 41538374868278621028243970633760768000 | 83076749736557242056487941267521536000 | 166153499473114484112975882535043072000 | 332306998946228968225951765070086144000 | 664613997892457936451903530140172288000 | 1329227995784915872903807060280344576000 | 2658455991569831745807614120560689152000 | 5316911983139663491615228241121378304000 | 10633823966279326983230456482242756608000 | 21267647932558653966460912964485513216000 | 42535295865117307932921825928971026432000 | 85070591730234615865843651857942052864000 | 170141183460469231731687303715884105728000 | 340282366920938463463374607431768211456000 | 680564733841876926926749214863536422912000 | 1361129467683753853853498429727072845824000 | 2722258935367507707706996859454145691648000 | 5444517870735015415413993718908291383296000 | 10889035741470030830827987437816582766592000 | 21778071482940061661655974875633165533184000 | 43556142965880123323311949751266331066368000 | 87112285931760246646623899502532662132736000 | 174224571863520493293247799005065324265472000 | 348449143727040986586495598010130648530944000 | 696898287454081973172991196020261297061888000 | 1393796574908163946345982392040522594123776000 | 2787593149816327892691964784081045188247552000 | 5575186299632655785383929568162090376495104000 | 11150372599265311570767859136324180752990208000 | 22300745198530623141535718272648361505980416000 | 44601490397061246283071436545296723011960832000 | 89202980794122492566142873090593446023921664000 | 178405961588244985132285746181186892047843328000 | 356811923176489970264571492362373784095686656000 | 713623846352979940529142984724747568191373312000 | 1427247692705959881058285969449495136382746624000 | 2854495385411919762116571938898990272765493248000 | 5708990770823839524233143877797980545530986496000 | 11417981541647679048466287755595961091061972992000 | 22835963083295358096932575511191922182123945984000 | 45671926166590716193865151022383844364247891968000 | 91343852333181432387730302044767688728495783936000 | 182687704666362864775460604089535377456991567872000 | 365375409332725729550921208179070754913983135744000 | 730750818665451459101842416358141509827966271488000 | 1461501637330902918203684832716283019655932542976000 | 2923003274661805836407369665432566039311865085952000 | 5846006549323611672814739330865132078623730171904000 | 11692013098647223345629478661730264157247460343808000 | 23384026197294446691258957323460528314494920687616000 | 46768052394588893382517914646921056628989841375232000 | 93536104789177786765035829293842113257979682750464000 | 187072209578355573530071658587684226515959365500928000 | 374144419156711147060143317175368453031918731001856000 | 748288838313422294120286634350736906063837462003712000 | 1496577676626844588240573268701473812127674924007424000 | 2993155353253689176481146537402947624255349848014848000 | 5986310706507378352962293074805895248510699696029696000 | 11972621413014756705924586149611790497021399392059392000 | 23945242826029513411849172299223580994042798784118784000 | 47890485652059026823698344598447161988085597568237568000 | 95780971304118053647396689196894323976171195136475136000 | 191561942608236107294793378393788647952342390272950272000 | 383123885216472214589586756787577295904684780545900544000 | 766247770432944429179173513575154591809369561091801088000 | 1532495540865888858358347027150309183618739122183602176000 | 3064991081731777716716694054300618367237478244367204352000 | 6129982163463555433433388108601236734474956488734408704000 | 12259964326927110866866776217202473468949912977468817408000 | 24519928653854221733733552434404946937899825954937634816000 | 49039857307708443467467104868809893875799651909875269632000 | 98079714615416886934934209737619787751599303819750539264000 | 196159429230833773869868419475239575503198607639501078528000 | 392318858461667547739736838950479151006397215279002157056000 | 784637716923335095479473677900958302012794430558004314112000 | 1569275433846670190958947355801916604025588861116008628224000 | 3138550867693340381917894711603833208051177722232017254448000 | 6277101735386680763835789423207666416102355444464034508896000 | 12554203470773361527671578846415332832204710888928069017792000 | 25108406941546723055343157692830665664409421777856138035584000 | 50216813883093446110686315385661331328818843555712276071168000 | 10043362776618689222137263077132266265763768711142455213232000 | 2008672555323737844427452615426453253152753742228491026464000 | 4017345110647475688854905230852906506305507484456982052928000 | 8034690221294951377709810461705813012611014968913964105856000 | 16069380442589902755419620923411626025222029937827928111712000 | 32138760885179805510839241846823252050444059875655856223424000 | 64277521770359611021678483693646504100888119751311712446848000 | 128555043540719222043356967387293008201776239502623424893792000 | 257110087081438444086713934774586016403552479005246849787584000 | 514220174162876888173427869549172032807104958010493699575168000 | 1028440348325753776346855739098344065614209916020987399150336000 | 2056880696651507552693711478196688131228419832041974798300672000 | 4113761393303015105387422956393376262456839664083949596601344000 | 8227522786606030210774845912786752524913679328167899193202688000 | 16455045573212060421549691825573505049827358656335798386405376000 | 32910091146424120843099383651147010099654717312671596772810752000 | 65820182292848241686198767302294020199309434625343193545621504000 | 131640364585696483372397534604588040398618869250686387091243008000 | 263280729171392966744795069209176080797237738501372774182486016000 | 526561458342785933489590138418352161594475477002745548364972032000 | 1053122916685571866979180276836704323188950954005491096739444064000 | 2106245833371143733958360553673408646377901908010982193478888128000 | 4212491666742287467916721107346817292755803816021964386957776256000 | 8424983333484574935833442214693634585511607632043928773915552512000 | 16849966668969149871666884429387269171023215264087857547831105024000 | 33699933337938299743333768858774538342046430528175715095662210048000 | 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452312848636953480097612160190187140051835877647134651291508446219730944000 | 904625697273906960195224320380374280103671755294269302583016892439461888000 | 1809251394547813920390448640760748560207343510588538605166033784878923776000 | 3618502789095627840780897281521497120414687021177077210332067569757847552000 | 7237005578191255681561794563042994240829374042354154420664135139515695104000 | 14474011156382511363123589126059988481658748084708308841328270279031390208000 | 28948022312765022726247178252119976963317496169416617682656540558062780416000 | 57896044625530045452494356504239953926634992338833235373113081116125560832000 | 115792089251060090904988713008479907853269984677666470746226162232251121664000 | 231584178502120181809977426016959815706539969355332941492452324464 |
|-----------|---------|---|----|-----|-----|------|------|------|------|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|----------|----------|----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|
|-----------|---------|---|----|-----|-----|------|------|------|------|-------|-------|-------|--------|--------|--------|---------|---------|---------|---------|----------|----------|----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|---|---|---|---|--|--|--|---|---|---|--|--|--|--|---|---|---|--|--|--|---|---|---|---|--|--|--|---|---|---|--|--|





| AO                  |             |           |           |          |          |          |          |          |  |  |  |
|---------------------|-------------|-----------|-----------|----------|----------|----------|----------|----------|--|--|--|
| FROM (CPS)          |             | 0         | +50       | 2.00     | +40      | 0        | RMS      | P-P      |  |  |  |
| TO (CPS)            |             | +50       | 2.00      | 5.00     | 2.20     | 10.00    | NOISE    | STD      |  |  |  |
| CHANNEL CALIBRATION |             |           |           |          |          |          |          |          |  |  |  |
| 9903 21             | 2.45517E 01 | 2.798E 00 | 0.730E-01 | 1.20E 00 | 1.31E 00 | 2.97E 00 | 2.98E 00 | 4.73E 01 |  |  |  |
| 9903 22             | 2.83950E 01 | 2.768E 00 | 1.01E 00  | 5.47E-01 | 1.38E 00 | 2.99E 00 | 2.99E 00 | 3.92E 01 |  |  |  |
| 9903 23             | 2.79742E 01 | 2.182E 00 | 9.80E-01  | 9.23E-01 | 1.36E 00 | 3.83E 00 | 3.33E 00 | 4.24E 01 |  |  |  |
| 9903 24             | 2.58694E 01 | 2.177E 00 | 1.20E 00  | 6.77E-01 | 1.82E 00 | 4.01E 00 | 4.01E 00 | 5.90E 01 |  |  |  |
| 9903 25             | 2.79083E 01 | 2.133E 00 | 8.92E-01  | 1.25E 00 | 1.22E 00 | 2.78E 00 | 2.78E 00 | 4.44E 01 |  |  |  |
| 9903 26             | 2.58975E 01 | 2.117E 00 | 8.93E-01  | 1.39E 00 | 1.24E 00 | 2.96E 00 | 2.56E 00 | 4.27E 01 |  |  |  |
| AVERAGE             |             |           |           |          |          |          |          |          |  |  |  |
| STD DEV             | 2.74E 00    | 9.01E-01  | 0.76E-01  | 1.39E 00 | 3.10E 00 | 3.35E 00 | 4.56E 01 |          |  |  |  |
| STD ERROR           | 5.64E-01    | 1.34E-01  | 3.31E-01  | 2.72E-01 | 4.99E-01 | 4.99E-01 | 6.97E 00 |          |  |  |  |
| AVE SIG/2=NOISE     | 2.58E 01    | 1.30E-01  | 3.79E-01  | 1.59E 01 | 1.63E 01 | 1.93E 01 | 1.52E 01 |          |  |  |  |
| CENTER SEISMOMETER  |             |           |           |          |          |          |          |          |  |  |  |
| SIGNIFICANCE        | 2.75E 00    | 0.81E-01  | 2.82E-01  | 1.46E 00 | 2.99E 00 | 2.99E 00 | 3.99E 01 |          |  |  |  |
| SIGNAL/2=NOISE      | SAME        | SAME      | LOW       | SAME     | SAME     | SAME     | SAME     |          |  |  |  |
| CALIBRATION         | 2.74466E 01 | 2.27E 01  |           | 1.43E 01 |          |          |          |          |  |  |  |
| UNPHASED SUM        |             |           |           |          |          |          |          |          |  |  |  |
| SIGNIFICANCE        | 2.39E 00    | 0.24E-01  | 1.89E-01  | 9.04E-01 | 2.46E 00 | 2.46E 00 | 3.95E 01 |          |  |  |  |
| SIGNAL/2=NOISE      | SAME        | LOW       | LOW       | LOW      | LOW      | LOW      | SAME     |          |  |  |  |
| CALIBRATION         | 2.72179E 01 | 3.14E 01  |           | 2.18E 01 |          |          |          |          |  |  |  |

| B3                  |             |          |          |          |          |          |          |          |  |  |  |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|--|--|--|
| FROM (CPS)          |             | 0        | +50      | 2.00     | +40      | 0        | RMS      | P-P      |  |  |  |
| TO (CPS)            |             | +50      | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | STD      |  |  |  |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |  |  |  |
| 9904 21             | 2.64693E 01 | 2.47E 00 | 1.20E 00 | 5.36E-01 | 1.70E 00 | 2.77E 00 | 2.77E 00 | 6.12E 01 |  |  |  |
| 9904 22             | 2.70259E 01 | 1.98E 00 | 1.14E 00 | 8.15E-01 | 1.54E 00 | 2.39E 00 | 2.39E 00 | 6.48E 01 |  |  |  |
| 9904 23             | 2.74594E 01 | 1.78E 00 | 1.29E 00 | 9.94E-01 | 1.75E 00 | 3.88E 00 | 3.06E 00 | 8.77E 01 |  |  |  |
| 9904 24             | 2.83994E 01 | 2.45E 00 | 1.11E 00 | 4.36E-01 | 1.55E 00 | 2.69E 00 | 2.69E 00 | 6.03E 01 |  |  |  |
| 9904 25             | 2.60231E 01 | 1.88E 00 | 1.09E 00 | 5.83E-01 | 1.37E 00 | 2.16E 00 | 2.16E 00 | 9.34E 01 |  |  |  |
| 9904 26             | 2.61477E 01 | 1.92E 00 | 1.18E 00 | 5.46E-01 | 1.51E 00 | 2.29E 00 | 2.29E 00 | 5.27E 01 |  |  |  |
| AVERAGE             |             |          |          |          |          |          |          |          |  |  |  |
| STD DEV             | 2.34E 00    | 1.17E 00 | 5.98E-01 | 1.57E 00 | 2.59E 00 | 2.55E 00 | 5.98E 01 |          |  |  |  |
| STD ERROR           | 1.77E-01    | 8.23E-02 | 1.24E-01 | 1.39E-01 | 3.43E-01 | 3.45E-01 | 8.21E 00 |          |  |  |  |
| AVE SIG/2=NOISE     | 1.88E 01    | 8.48E-02 | 2.92E-01 | 1.92E 01 | 1.39E 01 | 1.39E 01 | 1.92E 01 |          |  |  |  |
| CENTER SEISMOMETER  |             |          |          |          |          |          |          |          |  |  |  |
| SIGNIFICANCE        | 2.33E 00    | 1.11E 00 | 2.99E-01 | 1.59E 00 | 2.54E 00 | 2.54E 00 | 5.43E 01 |          |  |  |  |
| SIGNAL/2=NOISE      | SAME        | SAME     | LOW      | SAME     | SAME     | SAME     | SAME     |          |  |  |  |
| CALIBRATION         | 2.77317E 01 | 2.41E 01 |          | 1.71E 01 |          |          |          |          |  |  |  |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |  |  |  |
| SIGNIFICANCE        | 1.87E 00    | 7.43E-01 | 1.58E-01 | 1.96E 00 | 5.99E 00 | 2.90E 00 | 5.99E 01 |          |  |  |  |
| SIGNAL/2=NOISE      | SAME        | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |          |  |  |  |
| CALIBRATION         | 2.73946E 01 | 3.45E 01 |          | 2.37E 01 |          |          |          |          |  |  |  |

| C4                 |             |           |          |          |          |          |          |          |  |  |  |
|--------------------|-------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|
| FROM (CPS)         |             | 0         | +50      | 2.00     | +40      | 0        | RMS      | P-P      |  |  |  |
| TO (CPS)           |             | +50       | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | STD      |  |  |  |
| CHANNEL            | CALIBRATION |           |          |          |          |          |          |          |  |  |  |
| 9905 21            | 2.72933E 01 | 3.136E 00 | 1.08E 00 | 4.76E-01 | 1.31E 00 | 3.92E 00 | 3.92E 00 | 4.68E 01 |  |  |  |
| 9905 22            | 2.73258E 01 | 3.19E 00  | 1.13E 00 | 4.81E-01 | 1.34E 00 | 3.34E 00 | 3.34E 00 | 5.24E 01 |  |  |  |
| 9905 23            | 2.65908E 01 | 3.14E 00  | 1.07E 00 | 5.86E-01 | 1.31E 00 | 3.59E 00 | 3.59E 00 | 4.91E 01 |  |  |  |
| 9905 24            | 2.66836E 01 | 2.128E 00 | 8.25E-01 | 3.64E-01 | 1.04E 00 | 2.43E 00 | 2.44E 00 | 4.29E 01 |  |  |  |
| 9905 25            | 2.75400E 01 | 3.18E 00  | 1.04E 00 | 4.45E-01 | 1.33E 00 | 3.37E 00 | 3.38E 00 | 4.79E 01 |  |  |  |
| 9905 26            | 2.70217E 01 | 3.54E 00  | 1.19E 00 | 4.31E-01 | 1.47E 00 | 3.72E 00 | 3.72E 00 | 4.94E 01 |  |  |  |
| AVERAGE            |             |           |          |          |          |          |          |          |  |  |  |
| STD DEV            |             | 3.19E 00  | 1.06E 00 | 4.64E-01 | 1.36E 00 | 3.33E 00 | 3.33E 00 | 4.80E 01 |  |  |  |
| STD ERROR          |             | 4.32E-01  | 1.24E-01 | 7.31E-02 | 1.41E-01 | 4.60E-01 | 4.60E-01 | 3.21E 00 |  |  |  |
| AVE SIG/2=NOISE    |             | 1.43E 01  | 1.17E-01 | 1.98E-01 | 1.86E 01 | 1.38E 01 | 1.38E 01 | 8.88E 02 |  |  |  |
| CENTER SEISMOMETER |             |           |          |          |          |          |          |          |  |  |  |
| SIGNIFICANCE       |             | 2.45E 00  | 8.87E-01 | 2.13E-01 | 1.04E 00 | 2.58E 00 | 2.58E 00 | 3.54E 01 |  |  |  |
| SIGNAL/2=NOISE     |             | LOW       | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |  |  |  |
| CALIBRATION        | 2.76847E 01 |           | 2.00E 01 |          | 1.70E 01 |          |          |          |  |  |  |
| UNPHASED SUM       |             |           |          |          |          |          |          |          |  |  |  |
| SIGNIFICANCE       |             | 2.45E 00  | 6.78E-01 | 1.59E-01 | 8.83E-01 | 2.54E 00 | 2.54E 00 | 3.54E 01 |  |  |  |
| SIGNAL/2=NOISE     |             | LOW       | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |  |  |  |
| CALIBRATION        | 2.76056E 01 |           | 2.61E 01 |          | 2.05E 01 |          |          |          |  |  |  |

| B4                  |             |          |          |          |          |          |          |          |  |  |  |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|--|--|--|
| FROM (CPS)          |             | 0        | +50      | 2.00     | +40      | 0        | RMS      | P-P      |  |  |  |
| TO (CPS)            |             | +50      | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | STD      |  |  |  |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |  |  |  |
| 9906 21             | 2.66701E 01 | 2.73E 00 | 8.09E-01 | 4.70E-01 | 1.07E 00 | 2.88E 00 | 2.88E 00 | 4.36E 01 |  |  |  |
| 9906 22             | 2.68933E 01 | 2.16E 00 | 8.93E-01 | 3.74E-01 | 1.16E 00 | 2.01E 00 | 2.01E 00 | 4.31E 01 |  |  |  |
| 9906 23             | 2.79439E 01 | 2.34E 00 | 7.89E-01 | 4.26E-01 | 1.02E 00 | 2.51E 00 | 2.51E 00 | 3.79E 01 |  |  |  |
| 9906 24             | 2.73409E 01 | 3.34E 00 | 1.00E 00 | 4.65E-01 | 1.24E 00 | 3.52E 00 | 3.53E 00 | 4.92E 01 |  |  |  |
| 9906 25             | 2.75281E 01 | 2.63E 00 | 8.34E-01 | 4.99E-01 | 9.92E-01 | 2.43E 00 | 2.44E 00 | 3.74E 01 |  |  |  |
| 9906 26             | 2.77144E 01 | 2.72E 00 | 9.02E-01 | 5.17E-01 | 1.11E 00 | 2.01E 00 | 2.91E 00 | 4.41E 01 |  |  |  |
| AVERAGE             |             |          |          |          |          |          |          |          |  |  |  |
| STD DEV             | 2.167E 00   | 8.79E-01 | 4.59E-01 | 1.30E 00 | 2.84E 00 | 2.89E 00 | 4.24E 01 |          |  |  |  |
| STD ERROR           | 3.86E-01    | 1.00E-01 | 5.17E-02 | 3.77E-02 | 3.88E-01 | 3.88E-01 | 4.34E 00 |          |  |  |  |
| AVE SIG/2=NOISE     | 1.45E 01    | 1.15E-01 | 1.13E-01 | 8.27E-02 | 1.38E 01 | 1.38E 01 | 1.92E 01 |          |  |  |  |
| CENTER SEISMOMETER  |             |          |          |          |          |          |          |          |  |  |  |
| SIGNIFICANCE        | 2.19E 00    | 6.46E-01 | 2.46E-01 | 1.24E 00 | 2.72E 00 | 2.72E 00 | 3.99E 01 |          |  |  |  |
| SIGNAL/2=NOISE      | SAME        | SAME     | LOW      | SAME     | SAME     | SAME     | SAME     |          |  |  |  |
| CALIBRATION         | 2.73553E 01 | 2.35E 01 |          | 1.91E 01 |          |          |          |          |  |  |  |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |  |  |  |
| SIGNIFICANCE        | 2.19E 00    | 5.71E-01 | 1.23E-01 | 7.23E-01 | 2.56E 00 | 2.56E 00 | 3.68E 01 |          |  |  |  |
| SIGNAL/2=NOISE      | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |          |  |  |  |
| CALIBRATION         | 2.75054E 01 | 3.19E 01 |          | 2.41E 01 |          |          |          |          |  |  |  |



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E2

| FROM (CPS)          | TO (CPS)    | 0        | 50       | 200      | 40       | 1000     | RMS      | P-P |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|-----|
|                     |             | 20       | 200      | 500      | 200      | 1000     | NOISE    | SIG |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |     |
| 5999 21             | 2.90175E 01 | 2.93E 00 | 1.15E 00 | 1.32E 00 | 1.32E 00 | 3.32E 00 | 7.43E 01 |     |
| 5999 22             | 2.78035E 01 | 2.03E 00 | 1.17E 00 | 1.32E 00 | 1.32E 00 | 2.63E 00 | 1.09E 02 |     |
| 5999 23             | 2.48444E 01 | 2.11E 00 | 1.12E 00 | 1.32E 00 | 1.32E 00 | 3.37E 00 | 7.60E 01 |     |
| 5999 24             | 2.7371E 01  | 2.18E 00 | 1.12E 00 | 1.32E 00 | 1.32E 00 | 2.22E 00 | 9.67E 01 |     |
| 5999 25             | 2.7746E 01  | 2.27E 00 | 1.14E 00 | 1.32E 00 | 1.32E 00 | 3.03E 00 | 7.96E 01 |     |
| 5999 26             | 2.5806E 01  | 2.66E 00 | 1.16E 00 | 1.32E 00 | 1.32E 00 | 3.09E 00 | 9.11E 01 |     |
| AVERAGE             |             |          |          |          |          |          |          |     |
| STD DEV             |             | 2.7E 00  | 1.1E 00  | 1.3E 00  | 1.3E 00  | 3.11E 00 | 8.73E 01 |     |
| STD ERROR           |             | 2.1E 00  | 1.2E 00  | 1.3E 00  | 1.3E 00  | 2.60E 00 | 1.37E 01 |     |
| AVE SIG/2 NOISE     |             | 1.33E 01 | 6.17E 02 | 2.13E 01 | 6.32E 02 | 8.33E 02 | 1.56E 01 |     |
| CENTER SEISMO METER |             |          |          |          |          |          |          |     |
| SIGNIFICANCE        |             | 2.6E 00  | 1.00E 00 | 4.47E 01 | 1.17E 00 | 2.8E 00  | 6.97E 01 |     |
| SIGNAL/2 NOISE      |             | SAFE     | LOW      | LOW      | LOW      | LOW      | LOW      |     |
| CALIBRATION         | 2.69625E 01 | 3.4E 01  | 3.74E 01 | 2.97E 01 | 2.97E 01 |          |          |     |
| UNPHASED SUM        |             |          |          |          |          |          |          |     |
| SIGNIFICANCE        |             | 2.3E 00  | 6.81E 01 | 1.95E 01 | 8.6E 01  | 2.43E 00 | 6.84E 01 |     |
| SIGNAL/2 NOISE      |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |     |
| CALIBRATION         | 2.7779E 01  | 5.02E 01 | 3.94E 01 | 3.94E 01 | 3.94E 01 |          |          |     |

F2

| FROM (CPS)          | TO (CPS)   | 0        | 50       | 200      | 40       | 1000     | RMS      | P-P |
|---------------------|------------|----------|----------|----------|----------|----------|----------|-----|
|                     |            | 20       | 200      | 500      | 200      | 1000     | NOISE    | SIG |
| CHANNEL CALIBRATION |            |          |          |          |          |          |          |     |
| 6600 21             | 2.7206E 01 | 2.73E 00 | 1.05E 00 | 4.03E 01 | 1.33E 00 | 2.52E 00 | 5.49E 01 |     |
| 6600 22             | 2.7380E 01 | 2.17E 00 | 1.05E 00 | 4.11E 01 | 1.4E 00  | 2.43E 00 | 5.96E 01 |     |
| 6600 23             | 2.7353E 01 | 2.13E 00 | 1.22E 00 | 5.45E 01 | 1.60E 00 | 2.70E 00 | 6.82E 01 |     |
| 6600 24             | 2.7359E 01 | 2.13E 00 | 1.08E 00 | 4.40E 01 | 1.70E 00 | 2.50E 00 | 5.77E 01 |     |
| 6600 25             | 2.8954E 01 | 2.15E 00 | 1.11E 00 | 5.21E 01 | 1.8E 00  | 2.87E 00 | 6.13E 01 |     |
| 6600 26             | 2.7316E 01 | 2.48E 00 | 1.05E 00 | 4.76E 01 | 1.33E 00 | 2.43E 00 | 4.13E 01 |     |
| AVERAGE             |            |          |          |          |          |          |          |     |
| STD DEV             |            | 2.3E 00  | 1.1E 00  | 4.6E 01  | 1.3E 00  | 2.5E 00  | 5.72E 01 |     |
| STD ERROR           |            | 1.8E 00  | 9.3E 02  | 5.85E 02 | 1.7E 01  | 2.7E 01  | 8.9E 00  |     |
| AVE SIG/2 NOISE     |            | 1.6E 01  | 2.6E 01  | 1.25E 01 | 2.1E 01  | 4.6E 01  | 1.57E 01 |     |
| CENTER SEISMO METER |            |          |          |          |          |          |          |     |
| SIGNIFICANCE        |            | 1.9E 00  | 9.0E 01  | 2.20E 01 | 1.4E 00  | 2.1E 00  | 4.59E 01 |     |
| SIGNAL/2 NOISE      |            | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |     |
| CALIBRATION         | 2.6339E 01 | 2.5E 01  | 2.01E 01 | 2.01E 01 | 2.01E 01 |          |          |     |
| UNPHASED SUM        |            |          |          |          |          |          |          |     |
| SIGNIFICANCE        |            | 1.9E 00  | 7.8E 01  | 1.53E 01 | 1.6E 00  | 2.3E 00  | 5.0E 01  |     |
| SIGNAL/2 NOISE      |            | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      |     |
| CALIBRATION         | 2.7187E 01 | 3.2E 01  | 2.3E 01  | 2.3E 01  | 2.3E 01  |          |          |     |



SEISMOGRAMS 6001-6021 21 APRIL 1966

NOISE SAMPLE 51.2 SECONDS STARTING AT 08:25:46.0 GMT

# SEISMIC SIGNAL

ORIGIN TIME 08:18:23.9 GMT

EPICENTER 06.9°N, 73.1°W NORTHERN COLOMBIA

AO ARRIVAL TIME 08:26:52.1 GMT

## F3

| FROM (CPS)              | 0           | .50      | 2.00     | .40      | 8        | RMS      | P-P               |
|-------------------------|-------------|----------|----------|----------|----------|----------|-------------------|
| TO (CPS)                | .50         | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | SIG               |
| CHANNEL CALIBRATION     |             |          |          |          |          |          |                   |
| 4002 21                 | 2.648798 01 | 11028 00 | 8.44E-01 | 4.42E-01 | 1.07E 00 | 2.34E 00 | 2.44E 00 1.20E 00 |
| 4002 22                 | 2.768200 01 | 11028 00 | 1.00E 00 | 8.97E-01 | 1.20E 00 | 2.00E 00 | 3.40E 00 1.03E 00 |
| 4002 23                 | 2.467425 01 | 11178 00 | 8.88E-01 | 4.97E-01 | 1.13E 00 | 2.34E 00 | 2.34E 00 1.27E 00 |
| 4002 24                 | 2.819145 01 | 11478 00 | 7.88E-01 | 4.31E-01 | 9.87E-01 | 1.00E 00 | 1.00E 00 1.20E 00 |
| 4002 25                 | 2.771788 01 | 1124E 00 | 7.84E-01 | 3.02E-01 | 1.12E 00 | 2.40E 00 | 2.40E 00 1.20E 00 |
| 4002 26                 | 2.93744E 01 | 2162E 00 | 9.39E-01 | 5.11E-01 | 1.20E 00 | 2.02E 00 | 2.42E 00 1.37E 00 |
| AVERAGE                 | 2.10E 00    | 8.47E-01 | 4.70E-01 | 1.14E 00 | 1.30E 00 | 1.40E 00 | 1.23E 00          |
| STD DEV                 | 1.08E-01    | 1.04E-01 | 4.37E-01 | 1.14E-01 | 3.87E-01 | 5.81E-01 | 1.10E 01          |
| STD ERROR               | 1.70E-01    | 1.27E-01 | 1.10E-01 | 9.80E-02 | 1.64E-01 | 2.20E-01 | 2.23E-01          |
| AVE SIG/2-NOISE         |             | 7.26E 01 |          | 9.30E 01 |          |          |                   |
| CENTER SEISMOGRAPH      | 2130E 00    | 8.15E-01 | 2.36E-01 | 1.10E 00 | 2.43E 00 | 2.43E 00 | 8.83E 01          |
| SIGNIFICANCE            | SAME        | SAME     | LOW      | SAME     | SAME     | SAME     | LOW               |
| SIGNAL/2-NOISE          |             | 8.42E 01 |          | 3.82E 01 |          |          |                   |
| CALIBRATION 2.73844E 01 |             |          |          |          |          |          |                   |
| UNPHASED SUM            | 1102E 00    | 5.31E-01 | 9.70E-02 | 7.62E-01 | 1.71E 00 | 1.72E 00 | 5.99E 01          |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW               |
| SIGNAL/2-NOISE          |             | 5.24E 01 |          | 3.67E 01 |          |          |                   |
| CALIBRATION 2.742638 01 |             |          |          |          |          |          |                   |

## B1

| FROM (CPS)              | 0           | .50      | 2.00     | .40      | 8        | RMS      | P-P               |
|-------------------------|-------------|----------|----------|----------|----------|----------|-------------------|
| TO (CPS)                | .50         | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | SIG               |
| CHANNEL CALIBRATION     |             |          |          |          |          |          |                   |
| 4001 21                 | 2.859445 01 | 2109E 00 | 9.12E-01 | 3.99E-01 | 1.03E 00 | 2.90E 00 | 2.90E 00 5.32E 01 |
| 4001 22                 | 2.829235 01 | 1179E 00 | 8.61E-01 | 3.97E-01 | 9.03E-01 | 1.07E 00 | 3.74E 01          |
| 4001 23                 | 2.892190 01 | 1112E 00 | 8.74E-01 | 3.42E-01 | 9.00E-01 | 2.23E 00 | 2.12E 00 9.20E 01 |
| 4001 24                 | 2.776970 01 | 1107E 00 | 8.73E-01 | 3.54E-01 | 1.00E 00 | 2.19E 00 | 2.19E 00 8.00E 01 |
| 4001 25                 | 2.876478 01 | 1171E 00 | 7.99E-01 | 3.93E-01 | 1.03E 00 | 1.02E 00 | 1.92E 00 5.49E 01 |
| 4001 26                 | 2.739818 01 | 1142E 00 | 7.90E-01 | 3.69E-01 | 8.94E-01 | 1.65E 00 | 1.65E 00 5.32E 01 |
| AVERAGE                 | 1104E 00    | 8.37E-01 | 3.71E-01 | 8.70E-01 | 3.09E 00 | 2.05E 00 | 5.69E 01          |
| STD DEV                 | 2.01E-01    | 1.04E-02 | 2.37E-02 | 7.90E-02 | 2.57E-01 | 2.37E-01 | 3.94E 00          |
| STD ERROR               | 1.142E-01   | 7.04E-02 | 4.30E-02 | 7.79E-02 | 1.25E-01 | 1.25E-01 | 2.97E-02          |
| AVE SIG/2-NOISE         |             | 3.40E 01 |          | 2.91E 01 |          |          |                   |
| CENTER SEISMOGRAPH      | 1130E 00    | 7.90E-01 | 2.12E-01 | 8.47E-01 | 1.74E 00 | 1.74E 00 | 2.45E 01          |
| SIGNIFICANCE            | SAME        | LOW      | LOW      | LOW      | LOW      | LOW      | LOW               |
| SIGNAL/2-NOISE          |             | 2.30E 01 |          | 2.43E 01 |          |          |                   |
| CALIBRATION 2.671798 01 |             |          |          |          |          |          |                   |
| UNPHASED SUM            | 1127E 00    | 8.21E-01 | 1.30E-01 | 6.00E-01 | 1.37E 00 | 1.37E 00 | 3.32E 01          |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW               |
| SIGNAL/2-NOISE          |             | 3.10E 01 |          | 2.40E 01 |          |          |                   |
| CALIBRATION 2.671798 01 |             |          |          |          |          |          |                   |

## F4

| FROM (CPS)              | 0           | .50      | 2.00     | .40      | 8        | RMS      | P-P               |
|-------------------------|-------------|----------|----------|----------|----------|----------|-------------------|
| TO (CPS)                | .50         | 2.00     | 5.00     | 2.20     | 10.00    | NOISE    | SIG               |
| CHANNEL CALIBRATION     |             |          |          |          |          |          |                   |
| 4003 21                 | 2.607330 01 | 2124E 00 | 8.10E-01 | 2.86E-01 | 1.23E 00 | 2.30E 00 | 2.30E 00 9.92E 01 |
| 4003 22                 | 2.85742E 01 | 2.26E 00 | 9.40E-01 | 3.60E-01 | 1.34E 00 | 2.49E 00 | 2.49E 00 1.11E 00 |
| 4003 23                 | 2.79604E 01 | 1.59E 00 | 8.30E-01 | 3.30E-01 | 1.04E 00 | 1.87E 00 | 1.97E 00 8.23E 01 |
| 4003 24                 | 2.98730E 01 | 2104E 00 | 8.40E-01 | 3.54E-01 | 1.13E 00 | 2.07E 00 | 2.27E 00 7.27E 01 |
| 4003 25                 | 2.75422E 01 | 2110E 00 | 8.23E-01 | 2.67E-01 | 1.19E 00 | 2.31E 00 | 2.31E 00 1.01E 00 |
| 4003 26                 | 2.83102E 01 | 1190E 00 | 8.04E-01 | 4.11E-01 | 1.16E 00 | 2.18E 00 | 2.18E 00 2.24E 02 |
| 4003 27                 | 2.87842E 01 | 1194E 00 | 8.07E-01 | 4.00E-01 | 1.00E 00 | 2.13E 00 | 2.13E 00 1.03E 00 |
| 4003 28                 | 2.76990E 01 | 2111E 00 | 1.07E 00 | 3.79E-01 | 1.23E 00 | 2.30E 00 | 2.30E 00 1.27E 02 |
| 4003 29                 | 2.80311E 01 | 2111E 00 | 9.04E-01 | 3.79E-01 | 1.09E 00 | 2.20E 00 | 2.20E 00 1.67E 00 |
| 4003 30                 | 2.77630E 01 | 2120E 00 | 9.00E-01 | 3.17E-01 | 1.15E 00 | 2.45E 00 | 2.45E 00 1.21E 00 |
| 4003 31                 | 2.84404E 01 | 2115E 00 | 7.94E-01 | 3.04E-01 | 1.10E 00 | 2.00E 00 | 2.00E 00 1.00E 00 |
| 4003 32                 | 2.86687E 01 | 1194E 00 | 7.40E-01 | 3.11E-01 | 1.03E 00 | 2.00E 00 | 2.00E 00 1.27E 00 |
| 4003 33                 | 2.99909E 01 | 2130E 00 | 8.11E-01 | 3.30E-01 | 1.14E 00 | 2.00E 00 | 2.00E 00 1.27E 00 |
| 4003 34                 | 2.80794E 01 | 1194E 00 | 8.07E-01 | 4.00E-01 | 9.07E-01 | 1.77E 00 | 1.77E 00 1.20E 00 |
| 4003 35                 | 2.79919E 01 | 1102E 00 | 9.19E-01 | 4.79E-01 | 1.04E 00 | 2.00E 00 | 2.00E 00 1.20E 00 |
| 4003 36                 | 2.68693E 01 | 2100E 00 | 8.23E-01 | 3.70E-01 | 1.01E 00 | 2.00E 00 | 2.00E 00 1.23E 00 |
| 4003 37                 | 2.85939E 01 | 1100E 00 | 7.70E-01 | 2.01E-01 | 9.00E-01 | 2.00E 00 | 2.00E 00 1.23E 00 |
| 4003 38                 | 2.82219E 01 | 2.19E 00 | 8.00E-01 | 2.92E-01 | 1.03E 00 | 2.37E 00 | 2.37E 00 1.01E 00 |
| 4003 39                 | 2.87930E 01 | 2101E 00 | 1.07E 00 | 3.36E-01 | 1.13E 00 | 2.00E 00 | 2.00E 00 1.23E 00 |
| 4003 40                 | 2.62167E 01 | 1112E 00 | 8.40E-01 | 3.30E-01 | 1.01E 00 | 2.00E 00 | 2.00E 00 1.00E 00 |
| 4003 41                 | 2.43047E 01 | 2111E 00 | 7.20E-01 | 2.82E-01 | 1.03E 00 | 2.24E 00 | 2.24E 00 1.00E 00 |
| 4003 42                 | 2.86558E 01 | 2120E 00 | 8.00E-01 | 3.40E-01 | 1.00E 00 | 2.40E 00 | 2.40E 00 1.00E 00 |
| 4003 43                 | 2.64891E 01 | 1199E 00 | 8.01E-01 | 3.73E-01 | 9.07E-01 | 2.17E 00 | 2.17E 00 1.00E 00 |
| 4003 44                 | 2.83442E 01 | 1197E 00 | 8.00E-01 | 3.10E-01 | 2.14E 00 | 2.10E 00 | 2.10E 00 1.00E 00 |
| AVERAGE                 | 1100E 00    | 8.09E-01 | 3.99E-01 | 1.10E 00 | 2.00E 00 | 2.00E 00 | 1.59E 00          |
| STD DEV                 | 1.00E-01    | 7.93E-02 | 4.21E-02 | 1.10E-01 | 2.40E-01 | 2.40E-01 | 2.00E 00          |
| STD ERROR               | 1.20E-01    | 9.15E-02 | 1.70E-01 | 1.04E-01 | 1.00E-01 | 1.00E-01 | 1.00E-01          |
| AVE SIG/2-NOISE         |             | 6.10E 01 |          | 4.97E 01 |          |          |                   |
| CENTER SEISMOGRAPH      | 2130E 00    | 7.41E-01 | 1.00E-01 | 1.13E 00 | 2.02E 00 | 2.00E 00 | 8.00E 01          |
| SIGNIFICANCE            | HIGH        | LOW      | LOW      | SAME     | HIGH     | HIGH     | LOW               |
| SIGNAL/2-NOISE          |             | 8.22E 01 |          | 2.02E 01 |          |          |                   |
| CALIBRATION 2.81009E 01 |             |          |          |          |          |          |                   |
| UNPHASED SUM            | 1173E 00    | 4.20E-01 | 6.50E-02 | 7.94E-01 | 1.01E 00 | 1.01E 00 | 6.90E 01          |
| SIGNIFICANCE            | LOW         | LOW      | LOW      | LOW      | LOW      | LOW      | LOW               |
| SIGNAL/2-NOISE          |             | 8.00E 01 |          | 4.30E 01 |          |          |                   |
| CALIBRATION 2.81009E 01 |             |          |          |          |          |          |                   |







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03[illegible]40[illegible]



[illegible]

|           |         |      |      |        |         |
|-----------|---------|------|------|--------|---------|
| FROM (CS) | TO (CS) | DATE | TIME | STATUS | REMARKS |
| 01        | 01      | 01   | 01   | 01     | 01      |
| 02        | 02      | 02   | 02   | 02     | 02      |
| 03        | 03      | 03   | 03   | 03     | 03      |
| 04        | 04      | 04   | 04   | 04     | 04      |
| 05        | 05      | 05   | 05   | 05     | 05      |
| 06        | 06      | 06   | 06   | 06     | 06      |
| 07        | 07      | 07   | 07   | 07     | 07      |
| 08        | 08      | 08   | 08   | 08     | 08      |
| 09        | 09      | 09   | 09   | 09     | 09      |
| 10        | 10      | 10   | 10   | 10     | 10      |
| 11        | 11      | 11   | 11   | 11     | 11      |
| 12        | 12      | 12   | 12   | 12     | 12      |
| 13        | 13      | 13   | 13   | 13     | 13      |
| 14        | 14      | 14   | 14   | 14     | 14      |
| 15        | 15      | 15   | 15   | 15     | 15      |
| 16        | 16      | 16   | 16   | 16     | 16      |
| 17        | 17      | 17   | 17   | 17     | 17      |
| 18        | 18      | 18   | 18   | 18     | 18      |
| 19        | 19      | 19   | 19   | 19     | 19      |
| 20        | 20      | 20   | 20   | 20     | 20      |
| 21        | 21      | 21   | 21   | 21     | 21      |
| 22        | 22      | 22   | 22   | 22     | 22      |
| 23        | 23      | 23   | 23   | 23     | 23      |
| 24        | 24      | 24   | 24   | 24     | 24      |
| 25        | 25      | 25   | 25   | 25     | 25      |
| 26        | 26      | 26   | 26   | 26     | 26      |
| 27        | 27      | 27   | 27   | 27     | 27      |
| 28        | 28      | 28   | 28   | 28     | 28      |
| 29        | 29      | 29   | 29   | 29     | 29      |
| 30        | 30      | 30   | 30   | 30     | 30      |
| 31        | 31      | 31   | 31   | 31     | 31      |
| 32        | 32      | 32   | 32   | 32     | 32      |
| 33        | 33      | 33   | 33   | 33     | 33      |
| 34        | 34      | 34   | 34   | 34     | 34      |
| 35        | 35      | 35   | 35   | 35     | 35      |
| 36        | 36      | 36   | 36   | 36     | 36      |
| 37        | 37      | 37   | 37   | 37     | 37      |
| 38        | 38      | 38   | 38   | 38     | 38      |
| 39        | 39      | 39   | 39   | 39     | 39      |
| 40        | 40      | 40   | 40   | 40     | 40      |
| 41        | 41      | 41   | 41   | 41     | 41      |
| 42        | 42      | 42   | 42   | 42     | 42      |
| 43        | 43      | 43   | 43   | 43     | 43      |
| 44        | 44      | 44   | 44   | 44     | 44      |
| 45        | 45      | 45   | 45   | 45     | 45      |
| 46        | 46      | 46   | 46   | 46     | 46      |
| 47        | 47      | 47   | 47   | 47     | 47      |
| 48        | 48      | 48   | 48   | 48     | 48      |
| 49        | 49      | 49   | 49   | 49     | 49      |
| 50        | 50      | 50   | 50   | 50     | 50      |
| 51        | 51      | 51   | 51   | 51     | 51      |
| 52        | 52      | 52   | 52   | 52     | 52      |
| 53        | 53      | 53   | 53   | 53     | 53      |
| 54        | 54      | 54   | 54   | 54     | 54      |
| 55        | 55      | 55   | 55   | 55     | 55      |
| 56        | 56      | 56   | 56   | 56     | 56      |
| 57        | 57      | 57   | 57   | 57     | 57      |
| 58        | 58      | 58   | 58   | 58     | 58      |
| 59        | 59      | 59   | 59   | 59     | 59      |
| 60        | 60      | 60   | 60   | 60     | 60      |
| 61        | 61      | 61   | 61   | 61     | 61      |
| 62        | 62      | 62   | 62   | 62     | 62      |
| 63        | 63      | 63   | 63   | 63     | 63      |
| 64        | 64      | 64   | 64   | 64     | 64      |
| 65        | 65      | 65   | 65   | 65     | 65      |
| 66        | 66      | 66   | 66   | 66     | 66      |
| 67        | 67      | 67   | 67   | 67     | 67      |
| 68        | 68      | 68   | 68   | 68     | 68      |
| 69        | 69      | 69   | 69   | 69     | 69      |
| 70        | 70      | 70   | 70   | 70     | 70      |
| 71        | 71      | 71   | 71   | 71     | 71      |
| 72        | 72      | 72   | 72   | 72     | 72      |
| 73        | 73      | 73   | 73   | 73     | 73      |
| 74        | 74      | 74   | 74   | 74     | 74      |
| 75        | 75      | 75   | 75   | 75     | 75      |
| 76        | 76      | 76   | 76   | 76     | 76      |
| 77        | 77      | 77   | 77   | 77     | 77      |
| 78        | 78      | 78   | 78   | 78     | 78      |
| 79        | 79      | 79   | 79   | 79     | 79      |
| 80        | 80      | 80   | 80   | 80     | 80      |
| 81        | 81      | 81   | 81   | 81     | 81      |
| 82        | 82      | 82   | 82   | 82     | 82      |
| 83        | 83      | 83   | 83   | 83     | 83      |
| 84        | 84      | 84   | 84   | 84     | 84      |
| 85        | 85      | 85   | 85   | 85     | 85      |
| 86        | 86      | 86   | 86   | 86     | 86      |
| 87        | 87      | 87   | 87   | 87     | 87      |
| 88        | 88      | 88   | 88   | 88     | 88      |
| 89        | 89      | 89   | 89   | 89     | 89      |
| 90        | 90      | 90   | 90   | 90     | 90      |
| 91        | 91      | 91   | 91   | 91     | 91      |
| 92        | 92      | 92   | 92   | 92     | 92      |
| 93        | 93      | 93   | 93   | 93     | 93      |
| 94        | 94      | 94   | 94   | 94     | 94      |
| 95        | 95      | 95   | 95   | 95     | 95      |
| 96        | 96      | 96   | 96   | 96     | 96      |
| 97        | 97      | 97   | 97   | 97     | 97      |
| 98        | 98      | 98   | 98   | 98     | 98      |
| 99        | 99      | 99   | 99   | 99     | 99      |
| 100       | 100     | 100  | 100  | 100    | 100     |





# F3

| FROM (CPS)   | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|
|  |             |          |          |          |          |          | NOISE    | SIG      |
| SEISMOGRAMS 6022-6042 22 APRIL 1966                  |             |          |          |          |          |          |          |          |
| NOISE SAMPLE 51.2 SECONDS STARTING AT 10:20:44.0 GMT |             |          |          |          |          |          |          |          |
| SEISMIC SIGNAL                                       |             |          |          |          |          |          |          |          |
| ORIGIN TIME 10:15:31.0 GMT                           |             |          |          |          |          |          |          |          |
| EPICENTER 56.9°N, 151.8°W KODIAK IS.                 |             |          |          |          |          |          |          |          |
| AO ARRIVAL TIME 10:21:53.7 GMT                       |             |          |          |          |          |          |          |          |
| Seismogram 6032 not included. Center seismometer of  |             |          |          |          |          |          |          |          |
| seismogram 6036 was inoperative.                     |             |          |          |          |          |          |          |          |
| CHANNEL CALIBRATION                                  |             |          |          |          |          |          |          |          |
| 6023 21  | 2.64347E 01 | 1.50E 00 | 6.20E-01 | 2.75E-01 | 6.74E-01 | 1.62E 00 | 1.63E 00 | 2.40E 01 |
| 6023 22  | 2.77017E 01 | 1.86E 00 | 6.66E-01 | 3.63E-01 | 7.80E-01 | 2.00E 00 | 2.00E 00 | 2.39E 01 |
| 6023 23  | 2.59714E 01 | 2.10E 00 | 8.66E-01 | 3.66E-01 | 9.09E-01 | 2.26E 00 | 2.27E 00 | 2.30E 01 |
| 6023 24  | 2.82032E 01 | 1.60E 00 | 9.12E-01 | 3.09E-01 | 1.00E 00 | 1.80E 00 | 1.80E 00 | 2.17E 01 |
| 6023 25  | 2.76119E 01 | 2.00E 00 | 1.01E 00 | 3.17E-01 | 1.12E 00 | 2.17E 00 | 2.17E 00 | 2.25E 01 |
| 6023 26  | 2.98944E 01 | 2.12E 00 | 9.16E-01 | 3.15E-01 | 1.04E 00 | 2.27E 00 | 2.26E 00 | 2.62E 01 |
| AVERAGE  |             |          |          |          |          |          |          |          |
| STD DEV  | 1.86E 00    |          |          |          |          |          |          |          |
| STD ERROR  | 1.62E-01    |          |          |          |          |          |          |          |
| AVE SIG/2*NOISE                                      | 1.41E-01    |          |          |          |          |          |          |          |
| 1.40E 01   |             |          |          |          |          |          |          |          |
| CENTER SEISMOMETER                                   |             |          |          |          |          |          |          |          |
| SIGNIFICANCE   | 2.03E 00    |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE                                       | SAME        |          |          |          |          |          |          |          |
| CALIBRATION  | 2.71031E 01 |          |          |          |          |          |          |          |
| UNPHASED SUM   |             |          |          |          |          |          |          |          |
| SIGNIFICANCE   | 1.39E 00    |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE                                       | LOW         |          |          |          |          |          |          |          |
| CALIBRATION  | 2.75934E 01 |          |          |          |          |          |          |          |

# F4

| FROM (CPS)          | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
|                     |             |          |          |          |          |          | NOISE    | SIG      |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |
| 6024 21             | 2.71337E 01 | 1.75E 00 | 6.74E-01 | 3.55E-01 | 1.25E 00 | 1.07E 00 | 1.07E 00 | 3.22E 01 |
| 6024 22             | 2.89672E 01 | 1.75E 00 | 9.14E-01 | 3.45E-01 | 1.25E 00 | 2.01E 00 | 2.01E 00 | 3.66E 01 |
| 6024 23             | 2.79167E 01 | 1.39E 00 | 8.75E-01 | 4.55E-01 | 1.00E 00 | 1.74E 00 | 1.74E 00 | 3.95E 01 |
| 6024 24             | 3.12000E 01 | 2.27E 00 | 9.94E-01 | 4.55E-01 | 1.49E 00 | 2.32E 00 | 2.32E 00 | 3.75E 01 |
| 6024 25             | 2.77335E 01 | 1.74E 00 | 8.30E-01 | 3.25E-01 | 1.27E 00 | 1.84E 00 | 1.84E 00 | 3.09E 01 |
| 6024 26             | 2.84914E 01 | 1.61E 00 | 9.00E-01 | 3.25E-01 | 1.27E 00 | 1.90E 00 | 1.90E 00 | 3.09E 01 |
| 6024 27             | 3.12239E 01 | 1.67E 00 | 8.60E-01 | 3.25E-01 | 1.27E 00 | 1.90E 00 | 1.90E 00 | 3.09E 01 |
| 6024 28             | 2.75916E 01 | 1.85E 00 | 9.12E-01 | 3.25E-01 | 1.27E 00 | 2.00E 00 | 2.00E 00 | 3.33E 01 |
| 6024 29             | 2.84432E 01 | 1.65E 00 | 8.75E-01 | 3.25E-01 | 1.27E 00 | 2.00E 00 | 2.00E 00 | 3.33E 01 |
| 6024 30             | 2.81135E 01 | 1.65E 00 | 9.61E-01 | 3.25E-01 | 1.27E 00 | 2.00E 00 | 2.00E 00 | 3.33E 01 |
| 6024 31             | 2.80689E 01 | 1.35E 00 | 9.57E-01 | 3.25E-01 | 1.27E 00 | 1.70E 00 | 1.70E 00 | 3.33E 01 |
| 6024 32             | 2.15576E 01 | 2.00E 00 | 1.00E 00 | 3.25E-01 | 1.27E 00 | 2.31E 00 | 2.31E 00 | 3.66E 01 |
| 6024 33             | 2.80774E 01 | 1.29E 00 | 7.51E-01 | 3.25E-01 | 1.27E 00 | 1.82E 00 | 1.82E 00 | 3.45E 01 |
| 6024 34             | 2.80403E 01 | 1.57E 00 | 8.91E-01 | 3.25E-01 | 1.27E 00 | 1.82E 00 | 1.82E 00 | 3.45E 01 |
| 6024 35             | 2.67725E 01 | 2.06E 00 | 9.70E-01 | 3.25E-01 | 1.27E 00 | 2.32E 00 | 2.32E 00 | 3.45E 01 |
| 6024 36             | 2.84700E 01 | 1.46E 00 | 8.74E-01 | 3.25E-01 | 1.27E 00 | 1.71E 00 | 1.71E 00 | 3.56E 01 |
| 6024 37             | 2.16633E 01 | 1.63E 00 | 9.40E-01 | 3.25E-01 | 1.27E 00 | 1.90E 00 | 1.90E 00 | 3.33E 01 |
| 6024 38             | 2.16633E 01 | 1.63E 00 | 9.02E-01 | 3.25E-01 | 1.27E 00 | 1.90E 00 | 1.90E 00 | 3.33E 01 |
| 6024 39             | 2.46931E 01 | 1.41E 00 | 8.94E-01 | 3.25E-01 | 1.27E 00 | 1.80E 00 | 1.80E 00 | 3.56E 01 |
| 6024 40             | 2.66239E 01 | 1.66E 00 | 7.63E-01 | 3.25E-01 | 1.27E 00 | 2.00E 00 | 2.00E 00 | 3.45E 01 |
| 6024 41             | 2.51172E 01 | 1.88E 00 | 5.70E-01 | 3.25E-01 | 1.27E 00 | 2.00E 00 | 2.00E 00 | 3.45E 01 |
| 6024 42             | 2.53719E 01 | 1.55E 00 | 7.42E-01 | 3.25E-01 | 1.27E 00 | 1.70E 00 | 1.70E 00 | 3.45E 01 |
| 6024 43             | 2.77777E 01 | 1.46E 00 | 5.15E-01 | 3.25E-01 | 1.27E 00 | 1.59E 00 | 1.59E 00 | 3.95E 01 |
| AVERAGE             |             |          |          |          |          |          |          |          |
| STD DEV             | 1.68E 00    |          |          |          |          |          |          |          |
| STD ERROR           | 2.35E-01    |          |          |          |          |          |          |          |
| AVE SIG/2*NOISE     | 1.35E-01    |          |          |          |          |          |          |          |
| 1.34E 01            |             |          |          |          |          |          |          |          |
| CENTER SEISMOMETER  |             |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.94E 00    |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      | HIGH        |          |          |          |          |          |          |          |
| CALIBRATION         | 2.82181E 01 |          |          |          |          |          |          |          |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.33E 00    |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      | LOW         |          |          |          |          |          |          |          |
| CALIBRATION         | 2.8494E 01  |          |          |          |          |          |          |          |

# F5

| FROM (CPS)          | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 10.00    | RMS      | P-P      |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
|                     |             |          |          |          |          |          | NOISE    | SIG      |
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |          |
| 6022 21             | 2.51139E 01 | 2.55E 00 | 8.42E-01 | 3.06E-01 | 1.13E 00 | 2.70E 00 | 2.70E 00 | 4.12E 01 |
| 6022 22             | 2.52233E 01 | 1.94E 00 | 8.26E-01 | 2.66E-01 | 1.02E 00 | 2.11E 00 | 2.11E 00 | 4.46E 01 |
| 6022 23             | 2.1231E 01  | 2.33E 00 | 9.70E-01 | 2.37E-01 | 1.25E 00 | 2.55E 00 | 2.55E 00 | 4.40E 01 |
| 6022 24             | 2.75706E 01 | 2.33E 00 | 1.04E 00 | 2.88E-01 | 1.35E 00 | 2.71E 00 | 2.71E 00 | 4.00E 01 |
| 6022 25             | 2.65592E 01 | 2.33E 00 | 9.25E-01 | 2.72E-01 | 1.19E 00 | 2.54E 00 | 2.54E 00 | 3.37E 01 |
| 6022 26             | 2.70939E 01 | 1.93E 00 | 7.44E-01 | 3.20E-01 | 9.07E-01 | 2.09E 00 | 2.09E 00 | 3.59E 01 |
| AVERAGE             |             |          |          |          |          |          |          |          |
| STD DEV             | 2.72E 00    |          |          |          |          |          |          |          |
| STD ERROR           | 2.70E-01    |          |          |          |          |          |          |          |
| AVE SIG/2*NOISE     | 1.23E-01    |          |          |          |          |          |          |          |
| 1.23E 01            |             |          |          |          |          |          |          |          |
| CENTER SEISMOMETER  |             |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.88E 00    |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      | LOW         |          |          |          |          |          |          |          |
| CALIBRATION         | 2.73017E 01 |          |          |          |          |          |          |          |
| UNPHASED SUM        |             |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.62E 00    |          |          |          |          |          |          |          |
| SIGNAL/2*NOISE      | LOW         |          |          |          |          |          |          |          |
| CALIBRATION         | 2.81886E 01 |          |          |          |          |          |          |          |

AO

FROM (CPS)  
TO (CPS)

0

-50

.50

2.00

2.00

5.00

.40

2.20

10.00

3

RMS

NOISE

P-P

SIG

CA

FROM (CPS)  
TO (CPS)

.50

2.00

2.00

3.00

.40

2.20

10.00

3

RMS

NOISE

P-P

SIG

CHANNEL CALIBRATION

5025 21

5025 22

5025 23

5025 24

5025 25

5025 26

AVERAGE

STD DEV

STD ERROR

AVE SIG/2\*NOISE

CENTER SEISMOGRAPH

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.81700E 01

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.75737E 01

B3

FROM (CPS)

TO (CPS)

.50

2.00

2.00

5.00

.40

2.20

10.00

3

RMS

NOISE

P-P

SIG

CHANNEL CALIBRATION

5026 21

5026 22

5026 23

5026 24

5026 25

5026 26

AVERAGE

STD DEV

STD ERROR

AVE SIG/2\*NOISE

CENTER SEISMOGRAPH

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.88864E 01

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.74997E 01

B4

FROM (CPS)

TO (CPS)

.50

2.00

2.00

5.00

.40

2.20

10.00

3

RMS

NOISE

P-P

SIG

CHANNEL CALIBRATION

5028 21

5028 22

5028 23

5028 24

5028 25

5028 26

AVERAGE

STD DEV

STD ERROR

AVE SIG/2\*NOISE

CENTER SEISMOGRAPH

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.85886E 01

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.83128E 01

B5

FROM (CPS)

TO (CPS)

.50

2.00

2.00

5.00

.40

2.20

10.00

3

RMS

NOISE

P-P

SIG

CHANNEL CALIBRATION

5030 21

5030 22

5030 23

5030 24

5030 25

5030 26

AVERAGE

STD DEV

STD ERROR

AVE SIG/2\*NOISE

CENTER SEISMOGRAPH

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.90050E 01

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.84075E 01

B6

FROM (CPS)

TO (CPS)

.50

2.00

2.00

5.00

.40

2.20

10.00

3

RMS

NOISE

P-P

SIG

CHANNEL CALIBRATION

5032 21

5032 22

5032 23

5032 24

5032 25

5032 26

AVERAGE

STD DEV

STD ERROR

AVE SIG/2\*NOISE

CENTER SEISMOGRAPH

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.90050E 01

UNPHASED SUM

SIGNIFICANCE

SIGNAL/2\*NOISE

CALIBRATION 2.84075E 01



C1  
FROM (CP5)  
TO (CP5)

|                     | C        | .50      | 2.00     | 5.00     | 10.00    | 4MS      | P-P      |
|---------------------|----------|----------|----------|----------|----------|----------|----------|
|                     | .50      | 2.00     | 5.00     | 10.00    | NOTISE   | SIG      |          |
| CHANNEL CALIBRATION |          |          |          |          |          |          |          |
| 8029 21             | 2.44E-01 | 8.07E-01 | 2.90E-01 | 1.17E-00 | 2.62E-00 | 2.62E-00 | 4.53E-01 |
| 8029 22             | 2.75E-01 | 8.51E-01 | 2.67E-01 | 1.10E-00 | 2.40E-00 | 2.40E-00 | 4.60E-01 |
| 8029 23             | 2.91E-01 | 8.11E-01 | 2.79E-01 | 1.11E-00 | 2.08E-00 | 2.08E-00 | 4.83E-01 |
| 8029 24             | 2.95E-01 | 8.07E-01 | 3.32E-01 | 1.01E-00 | 2.04E-00 | 2.04E-00 | 4.10E-01 |
| 8029 25             | 2.89E-01 | 1.14E-00 | 3.12E-01 | 1.24E-00 | 2.94E-00 | 2.94E-00 | 4.49E-01 |
| 8029 26             | 2.78E-01 | 9.84E-01 | 3.40E-01 | 1.19E-00 | 2.64E-00 | 2.64E-00 | 4.48E-01 |
| AVERAGE             |          |          |          |          |          |          |          |
| STD DEV             | 1.55E-01 | 2.44E-01 | 3.14E-01 | 1.14E-00 | 2.45E-00 | 2.45E-00 | 4.52E-01 |
| STD ERROR           | 1.57E-01 | 2.44E-01 | 3.14E-01 | 1.14E-00 | 2.45E-00 | 2.45E-00 | 4.52E-01 |
| AVE SIG/2+NOISE     | 2.47E-01 | 2.47E-01 | 2.47E-01 | 1.94E-01 | 1.43E-01 | 1.43E-01 | 9.39E-02 |
| CENTER SEISMOMETER  |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 2.89E-01 | 1.04E-01 | 1.71E-01 | 1.28E-00 | 2.89E-00 | 2.89E-00 | 4.15E-01 |
| SIGNAL/2+NOISE      | 2.89E-01 | 1.04E-01 | 1.71E-01 | 1.28E-00 | 2.89E-00 | 2.89E-00 | 4.15E-01 |
| CALIBRATION         | 2.73E-01 | 2.73E-01 | 2.73E-01 | 2.73E-01 | 2.73E-01 | 2.73E-01 | 2.73E-01 |
| UNPHASED SUM        |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.01E-01 | 8.14E-01 | 9.72E-01 | 8.27E-01 | 1.97E-00 | 1.73E-00 | 2.95E-01 |
| SIGNAL/2+NOISE      | 1.01E-01 | 8.14E-01 | 9.72E-01 | 8.27E-01 | 1.97E-00 | 1.73E-00 | 2.95E-01 |
| CALIBRATION         | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 |

C2  
FROM (CP5)  
TO (CP5)

|                     | C        | .50      | 2.00     | 5.00     | 10.00    | 4MS      | P-P      |
|---------------------|----------|----------|----------|----------|----------|----------|----------|
|                     | .50      | 2.00     | 5.00     | 10.00    | NOTISE   | SIG      |          |
| CHANNEL CALIBRATION |          |          |          |          |          |          |          |
| 8030 21             | 2.70E-01 | 7.04E-01 | 3.19E-01 | 9.24E-01 | 1.98E-00 | 1.98E-00 | 3.56E-01 |
| 8030 22             | 2.80E-01 | 6.52E-01 | 4.16E-01 | 1.19E-00 | 2.73E-00 | 2.73E-00 | 3.91E-01 |
| 8030 23             | 2.43E-01 | 1.79E-01 | 4.32E-01 | 9.60E-01 | 1.94E-00 | 1.94E-00 | 3.47E-01 |
| 8030 24             | 2.93E-01 | 1.90E-01 | 7.27E-01 | 3.40E-01 | 9.17E-01 | 2.03E-00 | 3.48E-01 |
| 8030 25             | 2.79E-01 | 2.30E-01 | 8.31E-01 | 3.47E-01 | 1.09E-00 | 2.40E-00 | 3.72E-01 |
| 8030 26             | 2.47E-01 | 1.91E-01 | 7.54E-01 | 3.00E-01 | 9.88E-01 | 1.99E-00 | 3.81E-01 |
| AVERAGE             |          |          |          |          |          |          |          |
| STD DEV             | 2.02E-01 | 7.91E-01 | 3.81E-01 | 1.01E-00 | 2.19E-00 | 2.19E-00 | 3.66E-01 |
| STD ERROR           | 2.02E-01 | 7.91E-01 | 3.81E-01 | 1.01E-00 | 2.19E-00 | 2.19E-00 | 3.66E-01 |
| AVE SIG/2+NOISE     | 1.59E-01 | 1.14E-01 | 8.56E-02 | 1.00E-01 | 1.49E-01 | 1.49E-01 | 8.02E-02 |
| CENTER SEISMOMETER  |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 2.10E-01 | 7.44E-01 | 2.23E-01 | 8.93E-01 | 2.23E-00 | 2.23E-00 | 3.48E-01 |
| SIGNAL/2+NOISE      | 2.10E-01 | 7.44E-01 | 2.23E-01 | 8.93E-01 | 2.23E-00 | 2.23E-00 | 3.48E-01 |
| CALIBRATION         | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 |
| UNPHASED SUM        |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.52E-01 | 8.77E-01 | 8.04E-01 | 8.34E-01 | 1.71E-00 | 1.71E-00 | 2.72E-01 |
| SIGNAL/2+NOISE      | 1.52E-01 | 8.77E-01 | 8.04E-01 | 8.34E-01 | 1.71E-00 | 1.71E-00 | 2.72E-01 |
| CALIBRATION         | 2.83E-01 | 2.83E-01 | 2.83E-01 | 2.83E-01 | 2.83E-01 | 2.83E-01 | 2.83E-01 |

B2  
FROM (CP5)  
TO (CP5)

|                     | C        | .50      | 2.00     | 5.00     | 10.00    | 4MS      | P-P      |
|---------------------|----------|----------|----------|----------|----------|----------|----------|
|                     | .50      | 2.00     | 5.00     | 10.00    | NOTISE   | SIG      |          |
| CHANNEL CALIBRATION |          |          |          |          |          |          |          |
| 8031 21             | 2.70E-01 | 7.04E-01 | 3.19E-01 | 9.24E-01 | 1.98E-00 | 1.98E-00 | 3.56E-01 |
| 8031 22             | 2.80E-01 | 6.52E-01 | 4.16E-01 | 1.19E-00 | 2.73E-00 | 2.73E-00 | 3.91E-01 |
| 8031 23             | 2.43E-01 | 1.79E-01 | 4.32E-01 | 9.60E-01 | 1.94E-00 | 1.94E-00 | 3.47E-01 |
| 8031 24             | 2.93E-01 | 1.90E-01 | 7.27E-01 | 3.40E-01 | 9.17E-01 | 2.03E-00 | 3.48E-01 |
| 8031 25             | 2.79E-01 | 2.30E-01 | 8.31E-01 | 3.47E-01 | 1.09E-00 | 2.40E-00 | 3.72E-01 |
| 8031 26             | 2.47E-01 | 1.91E-01 | 7.54E-01 | 3.00E-01 | 9.88E-01 | 1.99E-00 | 3.81E-01 |
| AVERAGE             |          |          |          |          |          |          |          |
| STD DEV             | 2.02E-01 | 7.91E-01 | 3.81E-01 | 1.01E-00 | 2.19E-00 | 2.19E-00 | 3.66E-01 |
| STD ERROR           | 2.02E-01 | 7.91E-01 | 3.81E-01 | 1.01E-00 | 2.19E-00 | 2.19E-00 | 3.66E-01 |
| AVE SIG/2+NOISE     | 1.59E-01 | 1.14E-01 | 8.56E-02 | 1.00E-01 | 1.49E-01 | 1.49E-01 | 8.02E-02 |
| CENTER SEISMOMETER  |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 2.10E-01 | 7.44E-01 | 2.23E-01 | 8.93E-01 | 2.23E-00 | 2.23E-00 | 3.48E-01 |
| SIGNAL/2+NOISE      | 2.10E-01 | 7.44E-01 | 2.23E-01 | 8.93E-01 | 2.23E-00 | 2.23E-00 | 3.48E-01 |
| CALIBRATION         | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 | 2.82E-01 |
| UNPHASED SUM        |          |          |          |          |          |          |          |
| SIGNIFICANCE        | 1.52E-01 | 8.77E-01 | 8.04E-01 | 8.34E-01 | 1.71E-00 | 1.71E-00 | 2.72E-01 |
| SIGNAL/2+NOISE      | 1.52E-01 | 8.77E-01 | 8.04E-01 | 8.34E-01 | 1.71E-00 | 1.71E-00 | 2.72E-01 |
| CALIBRATION         | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 | 2.79E-01 |

Note Subarray C3 - Seismogram not available.







E2

| FROM (GPS)              | TO (GPS)   | .50      | .50      | 2.00     | 2.00     | 3.75     | 10.00    | NOISE    | NOISE    | STD |
|-------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| CHANNEL CALIBRATION     |            |          |          |          |          |          |          |          |          |     |
| 5041 21                 | 2.8050E 01 | 2.20E 00 | 1.10E 00 | 4.02E 01 | 1.72E 00 | 2.53E 00 | 2.53E 00 | 2.53E 00 | 2.40E 01 | 1.1 |
| 5041 22                 | 2.8120E 01 | 1.49E 00 | 1.12E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 5041 23                 | 2.8130E 01 | 2.09E 00 | 1.19E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 5041 24                 | 2.8150E 01 | 1.70E 00 | 1.19E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 5041 25                 | 2.8170E 01 | 1.90E 00 | 1.19E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 5041 26                 | 2.8175E 01 | 1.91E 00 | 1.19E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| AVERAGE                 |            |          |          |          |          |          |          |          |          |     |
| STD DEV                 |            | 1.86E 00 | 1.25E 00 | 5.12E 01 | 1.51E 00 | 2.72E 00 | 2.72E 00 | 2.72E 00 | 2.72E 01 | 1.1 |
| STD ERROR               |            | 1.53E 01 | 1.07E 00 | 4.27E 01 | 1.25E 00 | 2.40E 00 | 2.40E 00 | 2.40E 00 | 2.40E 01 | 1.1 |
| AVE SIG/2*NOISE         |            |          |          |          |          |          |          |          |          |     |
| CENTER SEISMOGRAPH      |            |          |          |          |          |          |          |          |          |     |
| SIGNIFICANCE            |            |          |          |          |          |          |          |          |          |     |
| SIGNAL/2*NOISE          |            |          |          |          |          |          |          |          |          |     |
| CALIBRATION 2.74356E 01 |            |          |          |          |          |          |          |          |          |     |
| UNPHASED SUM            |            |          |          |          |          |          |          |          |          |     |
| SIGNIFICANCE            |            |          |          |          |          |          |          |          |          |     |
| SIGNAL/2*NOISE          |            |          |          |          |          |          |          |          |          |     |
| CALIBRATION 2.8039E 01  |            |          |          |          |          |          |          |          |          |     |

F2

| FROM (GPS)              | TO (GPS)    | .50      | .50      | 2.00     | 2.00     | 3.75     | 10.00    | NOISE    | NOISE    | STD |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| CHANNEL CALIBRATION     |             |          |          |          |          |          |          |          |          |     |
| 6042 21                 | 2.79267E 01 | 1.49E 00 | 1.17E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 6042 22                 | 2.77500E 01 | 1.55E 00 | 1.17E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 6042 23                 | 2.83093E 01 | 1.09E 00 | 1.02E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 6042 24                 | 2.84081E 01 | 1.09E 00 | 1.02E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 6042 25                 | 2.84514E 01 | 2.12E 00 | 1.03E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| 6042 26                 | 2.74356E 01 | 1.06E 00 | 1.06E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| AVERAGE                 |             |          |          |          |          |          |          |          |          |     |
| STD DEV                 |             | 1.06E 00 | 1.13E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| STD ERROR               |             | 1.06E 01 | 1.06E 00 | 4.02E 01 | 1.72E 00 | 2.43E 00 | 2.43E 00 | 2.43E 00 | 2.43E 01 | 1.1 |
| AVE SIG/2*NOISE         |             |          |          |          |          |          |          |          |          |     |
| CENTER SEISMOGRAPH      |             |          |          |          |          |          |          |          |          |     |
| SIGNIFICANCE            |             |          |          |          |          |          |          |          |          |     |
| SIGNAL/2*NOISE          |             |          |          |          |          |          |          |          |          |     |
| CALIBRATION 2.73517E 01 |             |          |          |          |          |          |          |          |          |     |
| UNPHASED SUM            |             |          |          |          |          |          |          |          |          |     |
| SIGNIFICANCE            |             |          |          |          |          |          |          |          |          |     |
| SIGNAL/2*NOISE          |             |          |          |          |          |          |          |          |          |     |
| CALIBRATION 2.7594E 01  |             |          |          |          |          |          |          |          |          |     |





| AO                 |             |          |          |          |          |          |          |          |          |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| FROM (CPS)         | TO (CPS)    | 2.00     | 5.00     | 10.00    | RMS      | P-P      | SIG      | 2.00     | 5.00     |
| CHANNEL            | CALIBRATION | 4.19E 00 | 1.11E 00 | 2.29E 00 | 1.38E 00 | 4.91E 00 | 1.62E 01 | 1.25E 00 | 4.99E 01 |
| 6046 21            | 2.6828E 01  | 4.43E 00 | 1.11E 00 | 2.59E 00 | 1.34E 00 | 5.27E 00 | 3.00E 01 | 1.35E 00 | 4.99E 01 |
| 6046 22            | 2.7648E 01  | 4.75E 00 | 1.17E 00 | 2.71E 00 | 1.44E 00 | 5.48E 00 | 2.67E 01 | 1.35E 00 | 4.99E 01 |
| 6046 23            | 2.7659E 01  | 6.40E 00 | 1.47E 00 | 2.14E 00 | 1.78E 00 | 6.91E 00 | 2.70E 01 | 1.44E 00 | 4.75E 00 |
| 6046 24            | 2.6936E 01  | 4.15E 00 | 1.11E 00 | 2.14E 00 | 1.45E 00 | 5.64E 00 | 1.72E 01 | 1.44E 00 | 4.75E 00 |
| 6046 25            | 2.7326E 01  | 3.75E 00 | 2.07E 00 | 5.55E 00 | 2.58E 00 | 7.04E 00 | 4.74E 01 | 1.44E 00 | 4.75E 00 |
| 6046 26            | 2.6552E 01  | 4.61E 00 | 1.35E 00 | 2.81E 00 | 1.61E 00 | 5.72E 00 | 2.66E 01 | 1.44E 00 | 4.75E 00 |
| AVERAGE            |             | 9.35E 01 | 3.77E 01 | 1.37E 00 | 1.37E 01 | 5.77E 01 | 1.15E 01 | 1.37E 01 | 5.77E 01 |
| STD DEV            |             | 2.03E 01 | 8.88E 01 | 3.88E 01 | 2.55E 01 | 1.71E 01 | 8.18E 01 | 1.71E 01 | 8.18E 01 |
| STD ERROR          |             | 9.84E 00 | 8.25E 00 | 8.25E 00 | 8.25E 00 | 8.25E 00 | 8.25E 00 | 8.25E 00 | 8.25E 00 |
| AVE SIG/2*NOISE    |             | 4.59E 00 | 1.15E 00 | 1.35E 00 | 1.35E 00 | 4.90E 00 | 1.65E 01 | 1.35E 00 | 4.90E 01 |
| CENTER SEISMOMETER |             | 4.59E 00 | 1.15E 00 | 1.35E 00 | 1.35E 00 | 4.90E 00 | 1.65E 01 | 1.35E 00 | 4.90E 01 |
| SIGNAL/2*NOISE     |             | 4.59E 00 | 1.15E 00 | 1.35E 00 | 1.35E 00 | 4.90E 00 | 1.65E 01 | 1.35E 00 | 4.90E 01 |
| CALIBRATION        | 2.7726F 01  | 4.59E 00 | 1.15E 00 | 1.35E 00 | 1.35E 00 | 4.90E 00 | 1.65E 01 | 1.35E 00 | 4.90E 01 |
| UNPHASED SUM       |             | 3.87E 00 | 6.87E 01 | 4.22E 01 | 8.92E 01 | 3.95E 00 | 1.80E 01 | 3.95E 00 | 1.80E 01 |
| SIGNAL/2*NOISE     |             | 3.87E 00 | 6.87E 01 | 4.22E 01 | 8.92E 01 | 3.95E 00 | 1.80E 01 | 3.95E 00 | 1.80E 01 |
| CALIBRATION        | 2.7516E 01  | 3.87E 00 | 6.87E 01 | 4.22E 01 | 8.92E 01 | 3.95E 00 | 1.80E 01 | 3.95E 00 | 1.80E 01 |

| B4                 |             |          |          |          |          |          |          |          |          |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| FROM (CPS)         | TO (CPS)    | 2.00     | 5.00     | 10.00    | RMS      | P-P      | SIG      | 2.00     | 5.00     |
| CHANNEL            | CALIBRATION | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| 6047 21            | 2.6292E 01  | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| 6047 22            | 2.6107E 01  | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| 6047 23            | 2.6814E 01  | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| 6047 24            | 2.7260E 01  | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| 6047 25            | 2.6859E 01  | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| 6047 26            | 2.6118E 01  | 4.33E 00 | 1.23E 00 | 7.14E 01 | 1.56E 00 | 4.51E 00 | 7.89E 01 | 1.44E 00 | 7.04E 01 |
| AVERAGE            |             | 3.87E 00 | 1.17E 00 | 8.35E 01 | 1.47E 00 | 4.10E 00 | 7.76E 01 | 1.47E 00 | 8.35E 01 |
| STD DEV            |             | 5.63E 01 | 1.01E 01 | 1.44E 01 | 1.37E 01 | 5.42E 01 | 7.48E 01 | 1.37E 01 | 5.42E 01 |
| STD ERROR          |             | 2.86E 01 | 8.68E 02 | 1.75E 01 | 4.30E 02 | 1.23E 01 | 9.38E 02 | 1.23E 01 | 9.38E 02 |
| AVE SIG/2*NOISE    |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| CENTER SEISMOMETER |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| SIGNAL/2*NOISE     |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| CALIBRATION        | 2.9173E 01  | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| UNPHASED SUM       |             | 3.22E 00 | 8.81E 01 | 1.40E 01 | 8.08E 01 | 3.27E 00 | 6.01E 01 | 3.27E 00 | 6.01E 01 |
| SIGNAL/2*NOISE     |             | 3.22E 00 | 8.81E 01 | 1.40E 01 | 8.08E 01 | 3.27E 00 | 6.01E 01 | 3.27E 00 | 6.01E 01 |
| CALIBRATION        | 2.7694E 01  | 3.22E 00 | 8.81E 01 | 1.40E 01 | 8.08E 01 | 3.27E 00 | 6.01E 01 | 3.27E 00 | 6.01E 01 |

| B4                 |             |          |          |          |          |          |          |          |          |
|--------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| FROM (CPS)         | TO (CPS)    | 2.00     | 5.00     | 10.00    | RMS      | P-P      | SIG      | 2.00     | 5.00     |
| CHANNEL            | CALIBRATION | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| 6049 21            | 2.6020E 01  | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| 6049 22            | 2.6355E 01  | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| 6049 23            | 2.8559E 01  | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| 6049 24            | 2.8476E 01  | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| 6049 25            | 2.8476E 01  | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| 6049 26            | 2.8476E 01  | 6.11E 00 | 1.44E 00 | 7.04E 01 | 1.44E 00 | 6.11E 00 | 6.31E 00 | 1.44E 00 | 6.31E 00 |
| AVERAGE            |             | 5.63E 01 | 1.01E 01 | 1.44E 01 | 1.37E 01 | 5.42E 01 | 7.48E 01 | 1.37E 01 | 5.42E 01 |
| STD DEV            |             | 2.86E 01 | 8.68E 02 | 1.75E 01 | 4.30E 02 | 1.23E 01 | 9.38E 02 | 1.23E 01 | 9.38E 02 |
| STD ERROR          |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| AVE SIG/2*NOISE    |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| CENTER SEISMOMETER |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| SIGNAL/2*NOISE     |             | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| CALIBRATION        | 2.8273E 01  | 3.31E 01 | 3.31E 01 | 2.63E 01 | 2.63E 01 | 3.70E 00 | 7.00E 01 | 3.70E 00 | 7.00E 01 |
| UNPHASED SUM       |             | 4.69E 00 | 8.68E 02 | 2.04E 01 | 1.68E 01 | 4.76E 00 | 3.76E 01 | 1.68E 01 | 4.76E 00 |
| SIGNAL/2*NOISE     |             | 4.69E 00 | 8.68E 02 | 2.04E 01 | 1.68E 01 | 4.76E 00 | 3.76E 01 | 1.68E 01 | 4.76E 00 |
| CALIBRATION        | 2.7799E 01  | 4.69E 00 | 8.68E 02 | 2.04E 01 | 1.68E 01 | 4.76E 00 | 3.76E 01 | 1.68E 01 | 4.76E 00 |



| C1                  | FROM (CPS) | TO (CPS)   | .50      | 2.00     | 5.00     | 10.00    | RMS NOISE | P-P SIG  |
|---------------------|------------|------------|----------|----------|----------|----------|-----------|----------|
| CHANNEL CALIBRATION | 6031 21    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 22    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 23    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 24    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 25    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 26    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 27    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 28    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 29    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 30    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 31    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 32    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 33    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 34    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 35    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 36    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 37    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 38    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 39    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 40    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 41    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 42    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 43    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 44    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 45    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 46    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 47    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 48    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 49    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 50    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 51    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 52    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 53    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 54    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 55    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 56    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 57    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 58    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 59    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 60    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 61    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 62    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 63    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 64    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 65    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 66    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 67    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 68    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 69    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 70    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 71    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 72    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 73    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 74    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 75    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 76    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 77    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 78    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 79    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 80    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 81    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 82    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 83    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 84    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 85    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 86    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 87    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 88    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 89    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 90    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 91    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 92    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 93    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 94    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 95    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 96    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 97    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 98    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 99    | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 100   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 101   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 102   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 103   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 104   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 105   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 106   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 107   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 108   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 109   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 110   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 111   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 112   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 113   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 114   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 115   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 116   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOMETER  | 6031 117   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNIFICANCE        | 6031 118   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| SIGNAL/2*NOISE      | 6031 119   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CALIBRATION         | 6031 120   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| UNPHASED SUM        | 6031 121   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVERAGE             | 6031 122   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| STD DEV             | 6031 123   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| AVE SIG/2*NOISE     | 6031 124   | 2.8792E 01 | 1.15E 00 | 4.09E 00 | 1.44E 00 | 4.09E 00 | 4.10E 00  | 5.09E 01 |
| CENTER REISMOM      |            |            |          |          |          |          |           |          |

| D3         |            |            |            |            |            |            |                     |            |            |
|------------|------------|------------|------------|------------|------------|------------|---------------------|------------|------------|
| FROM (CPS) | TO (CPS)   | 2.00       | 5.00       | 10.00      | RMS NOISE  | P-P SIG    | DI                  | FROM (CPS) | TO (CPS)   |
| 2.00       | 5.00       | 2.00       | 5.00       | 10.00      | RMS NOISE  | P-P SIG    | DI                  | 2.00       | 5.00       |
| 4.38E 00   | 1.59E 00   | 2.36E-01   | 1.80E 00   | 4.66E 00   | 1.45E 02   | 7.00E 01   | CHANNEL CALIBRATION | 4.65E 00   | 1.51E 00   |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 21    | 6054 21    | 6054 21    | 6054 21    | 6054 21    | 6054 21    | 6054 21    | 6054 21             | 6054 21    | 6054 21    |
| 2.7040E 01 | 2.7040E 01 | 2.7040E 01 | 2.7040E 01 | 2.7040E 01 | 2.7040E 01 | 2.7040E 01 | 2.7040E 01          | 2.7040E 01 | 2.7040E 01 |
| 6054 22    | 6054 22    | 6054 22    | 6054 22    | 6054 22    | 6054 22    | 6054 22    | 6054 22             | 6054 22    | 6054 22    |
| 2.8433E 01 | 2.8433E 01 | 2.8433E 01 | 2.8433E 01 | 2.8433E 01 | 2.8433E 01 | 2.8433E 01 | 2.8433E 01          | 2.8433E 01 | 2.8433E 01 |
| 6054 23    | 6054 23    | 6054 23    | 6054 23    | 6054 23    | 6054 23    | 6054 23    | 6054 23             | 6054 23    | 6054 23    |
| 2.7460E 01 | 2.7460E 01 | 2.7460E 01 | 2.7460E 01 | 2.7460E 01 | 2.7460E 01 | 2.7460E 01 | 2.7460E 01          | 2.7460E 01 | 2.7460E 01 |
| 6054 24    | 6054 24    | 6054 24    | 6054 24    | 6054 24    | 6054 24    | 6054 24    | 6054 24             | 6054 24    | 6054 24    |
| 2.6832E 01 | 2.6832E 01 | 2.6832E 01 | 2.6832E 01 | 2.6832E 01 | 2.6832E 01 | 2.6832E 01 | 2.6832E 01          | 2.6832E 01 | 2.6832E 01 |
| 6054 25    | 6054 25    | 6054 25    | 6054 25    | 6054 25    | 6054 25    | 6054 25    | 6054 25             | 6054 25    | 6054 25    |
| 2.9152E 01 | 2.9152E 01 | 2.9152E 01 | 2.9152E 01 | 2.9152E 01 | 2.9152E 01 | 2.9152E 01 | 2.9152E 01          | 2.9152E 01 | 2.9152E 01 |
| 6054 26    | 6054 26    | 6054 26    | 6054 26    | 6054 26    | 6054 26    | 6054 26    | 6054 26             | 6054 26    | 6054 26    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 27    | 6054 27    | 6054 27    | 6054 27    | 6054 27    | 6054 27    | 6054 27    | 6054 27             | 6054 27    | 6054 27    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 28    | 6054 28    | 6054 28    | 6054 28    | 6054 28    | 6054 28    | 6054 28    | 6054 28             | 6054 28    | 6054 28    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 29    | 6054 29    | 6054 29    | 6054 29    | 6054 29    | 6054 29    | 6054 29    | 6054 29             | 6054 29    | 6054 29    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 30    | 6054 30    | 6054 30    | 6054 30    | 6054 30    | 6054 30    | 6054 30    | 6054 30             | 6054 30    | 6054 30    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 31    | 6054 31    | 6054 31    | 6054 31    | 6054 31    | 6054 31    | 6054 31    | 6054 31             | 6054 31    | 6054 31    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01          | 2.9310E 01 | 2.9310E 01 |
| 6054 32    | 6054 32    | 6054 32    | 6054 32    | 6054 32    | 6054 32    | 6054 32    | 6054 32             | 6054 32    | 6054 32    |
| 2.9310E 01 | 2.9310E 01 | 2.9310E 01 | 2.9310E 01 |            |            |            |                     |            |            |



[illegible]

E2

| FROM (CPS)          | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 2.20     | 10.00    | RMS NOISE | P-P SIG |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|-----------|---------|
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |           |         |
| 6062 21             | 2.56026E 01 | 4.95E 00 | 1.42E 00 | 5.17E-01 | 1.72E 00 | 5.15E 00 | 5.14E 00 | 4.95E 01  |         |
| 6062 22             | 2.56026E 01 | 3.35E 00 | 1.35E 00 | 8.57E-01 | 1.47E 00 | 3.65E 00 | 3.65E 00 | 5.00E 01  |         |
| 6062 23             | 2.56026E 01 | 4.95E 00 | 1.35E 00 | 3.92E-01 | 1.35E 00 | 5.15E 00 | 5.15E 00 | 4.95E 01  |         |
| 6062 24             | 2.56026E 01 | 4.95E 00 | 1.35E 00 | 5.80E-01 | 1.35E 00 | 4.46E 00 | 4.46E 00 | 4.95E 01  |         |
| 6062 25             | 2.56026E 01 | 4.95E 00 | 1.35E 00 | 8.03E-01 | 1.35E 00 | 4.70E 00 | 4.70E 00 | 4.95E 01  |         |
| 6062 26             | 2.56026E 01 | 4.95E 00 | 1.35E 00 | 6.46E-01 | 1.35E 00 | 4.41E 00 | 4.41E 00 | 4.95E 01  |         |
| AVERAGE             |             |          |          |          |          |          |          |           |         |
| STD DEV             |             | 4.95E 00 | 1.35E 00 | 5.81E-01 | 1.40E 00 | 4.59E 00 | 4.59E 00 | 4.95E 01  |         |
| STD ERROR           |             | 8.15E-01 | 3.75E-01 | 2.65E-01 | 8.47E-01 | 5.85E-01 | 5.62E-01 | 8.47E-01  |         |
| AVE SIG/2*NOISE     |             | 1.45E-01 | 1.75E-01 | 2.75E-01 | 1.45E-01 | 1.25E-01 | 1.25E-01 | 6.24E-02  |         |
| CENTER SEISMOMETER  |             |          |          |          |          |          |          |           |         |
| SIGNIFICANCE        |             | 4.95E 00 | 1.25E 00 | 2.90E-01 | 1.44E 00 | 4.47E 00 | 4.47E 00 | 4.95E 01  |         |
| SIGNAL/2*NOISE      |             | SAME     | LOW      | LOW      | LOW      | SAME     | SAME     | LOW       |         |
| CALIBRATION         | 2.24083E 01 | 1.65E 01 | 1.41E 01 |          |          |          |          |           |         |
| UNPHASED SUM        |             |          |          |          |          |          |          |           |         |
| SIGNIFICANCE        |             | 3.39E 00 | 6.37E-01 | 1.35E-01 | 8.63E-01 | 3.46E 00 | 3.46E 00 | 3.40E 01  |         |
| SIGNAL/2*NOISE      |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW       |         |
| CALIBRATION         | 2.83666E 01 | 2.67E 01 |          |          | 1.97E 01 |          |          |           |         |

F2

| FROM (CPS)          | TO (CPS)    | 0        | .50      | 2.00     | 5.00     | 2.20     | 10.00    | RMS NOISE | P-P SIG |
|---------------------|-------------|----------|----------|----------|----------|----------|----------|-----------|---------|
| CHANNEL CALIBRATION |             |          |          |          |          |          |          |           |         |
| 6063 21             | 2.61417E 01 | 3.06E 00 | 1.30E 00 | 1.25E 00 | 1.65E 00 | 3.55E 00 | 3.55E 00 | 8.46E 01  |         |
| 6063 22             | 2.77300E 01 | 3.22E 00 | 1.34E 00 | 1.11E 00 | 1.55E 00 | 3.67E 00 | 3.67E 00 | 8.79E 01  |         |
| 6063 23             | 2.84239E 01 | 4.15E 00 | 1.60E 00 | 1.41E 00 | 2.15E 00 | 4.69E 00 | 4.69E 00 | 9.89E 01  |         |
| 6063 24             | 2.88944E 01 | 3.75E 00 | 1.34E 00 | 1.88E 00 | 1.75E 00 | 4.12E 00 | 4.12E 00 | 8.85E 01  |         |
| 6063 25             | 2.94339E 01 | 4.08E 00 | 1.60E 00 | 1.99E 00 | 2.15E 00 | 4.55E 00 | 4.55E 00 | 1.05E 02  |         |
| 6063 26             | 2.74029E 01 | 3.06E 00 | 1.41E 00 | 1.88E 00 | 1.84E 00 | 3.62E 00 | 3.62E 00 | 8.59E 01  |         |
| AVERAGE             |             |          |          |          |          |          |          |           |         |
| STD DEV             |             | 3.54E 00 | 1.45E 00 | 1.30E 00 | 1.84E 00 | 4.03E 00 | 4.03E 00 | 9.16E 01  |         |
| STD ERROR           |             | 4.95E-01 | 1.55E-01 | 2.47E-01 | 1.35E-01 | 5.80E-01 | 5.80E-01 | 8.42E 00  |         |
| AVE SIG/2*NOISE     |             | 1.35E-01 | 1.04E-01 | 1.75E-01 | 1.35E-01 | 1.24E-01 | 1.24E-01 | 9.15E-02  |         |
| CENTER SEISMOMETER  |             |          |          |          |          |          |          |           |         |
| SIGNIFICANCE        |             | 3.13E 00 | 1.12E 00 | 6.23E-01 | 1.34E 00 | 3.36E 00 | 3.36E 00 | 7.56E 01  |         |
| SIGNAL/2*NOISE      |             | SAME     | LOW      | LOW      | LOW      | LOW      | LOW      | LOW       |         |
| CALIBRATION         | 2.7207E 01  | 3.39E 01 |          |          | 2.83E 01 |          |          |           |         |
| UNPHASED SUM        |             |          |          |          |          |          |          |           |         |
| SIGNIFICANCE        |             | 2.94E 00 | 7.32E-01 | 2.81E-01 | 8.09E-01 | 3.03E 00 | 3.03E 00 | 7.71E 01  |         |
| SIGNAL/2*NOISE      |             | LOW      | LOW      | LOW      | LOW      | LOW      | LOW      | LOW       |         |
| CALIBRATION         | 2.73397E 01 | 5.27E 01 |          |          | 4.77E 01 |          |          |           |         |









Note Subarray C1 - Seismogram not available.

Note Subarray B2 - Seismogram not available.

Note Subarray C2 - Seismogram not available.

Note Subarray C3 - Seismogram not available.





| E3                     |          |          |          | E1                     |          |          |          |
|------------------------|----------|----------|----------|------------------------|----------|----------|----------|
| FROM (CPS)             | TO (CPS) | RMS      | PER SIG  | FROM (CPS)             | TO (CPS) | RMS      | PER SIG  |
| 0                      | 50       | 200      | 500      | 0                      | 50       | 200      | 500      |
| CHANNEL CALIBRATION    |          |          |          | CHANNEL CALIBRATION    |          |          |          |
| 6264 21                | 7.75E-01 | 7.75E-01 | 7.75E-01 | 6266 21                | 2.86E-09 | 1.47E 00 | 8.82E 00 |
| 6264 22                | 7.75E-01 | 7.75E-01 | 7.75E-01 | 6266 22                | 2.86E-09 | 1.47E 00 | 8.82E 00 |
| 6264 23                | 7.75E-01 | 7.75E-01 | 7.75E-01 | 6266 23                | 2.86E-09 | 1.47E 00 | 8.82E 00 |
| 6264 24                | 7.75E-01 | 7.75E-01 | 7.75E-01 | 6266 24                | 2.86E-09 | 1.47E 00 | 8.82E 00 |
| 6264 25                | 7.75E-01 | 7.75E-01 | 7.75E-01 | 6266 25                | 2.86E-09 | 1.47E 00 | 8.82E 00 |
| 6264 26                | 7.75E-01 | 7.75E-01 | 7.75E-01 | 6266 26                | 2.86E-09 | 1.47E 00 | 8.82E 00 |
| AVERAGE                |          |          |          | AVERAGE                |          |          |          |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| STD DEV                |          |          |          | STD DEV                |          |          |          |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| AVE SIG/NOISE          |          |          |          | AVE SIG/NOISE          |          |          |          |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| CENTER SIGNATURE       |          |          |          | CENTER SIGNATURE       |          |          |          |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| SIGNATURE              |          |          |          | SIGNATURE              |          |          |          |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| 1.26E 00               | 7.75E-01 | 7.75E-01 | 7.75E-01 | 1.59E 00               | 1.59E 00 | 1.59E 00 | 1.59E 00 |
| SIGNAL/NOISE           |          |          |          | SIGNAL/NOISE           |          |          |          |
| CALIBRATION 2.8823E 01 |          |          |          | CALIBRATION 2.7719E 01 |          |          |          |
| UNPAIRED SUM           |          |          |          | UNPAIRED SUM           |          |          |          |
| 9.10E-01               | 4.40E-01 | 1.05E-01 | 6.45E-01 | 1.55E 00               | 5.75E-01 | 2.75E-01 | 3.75E 00 |
| SIGNATURE              |          |          |          | SIGNATURE              |          |          |          |
| 9.10E-01               | 4.40E-01 | 1.05E-01 | 6.45E-01 | 1.55E 00               | 5.75E-01 | 2.75E-01 | 3.75E 00 |
| SIGNAL/NOISE           |          |          |          | SIGNAL/NOISE           |          |          |          |
| CALIBRATION 2.8089E 01 |          |          |          | CALIBRATION 2.7193E 01 |          |          |          |

FROM (CPS)  
TO (CPS)

CHANNEL CALIBRATION

|      |    |          |    |
|------|----|----------|----|
| 6268 | 21 | 2,86036E | 01 |
| 6268 | 22 | 2,80467E | 01 |
| 6268 | 23 | 2,84197E | 01 |
| 6268 | 24 | 2,97958E | 01 |
| 6268 | 25 | 2,88208E | 01 |
| 6268 | 26 | 2,81600E | 01 |

AVERAGE  
STD DEV  
STD ERROR  
AVE SIG/2\*NOISE

CENTER SEISMOMETER  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.74083E 01

UNPHASED SUM  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.83666E 01

F2

FROM (CPS)  
TO (CPS)

| CHANNEL | CALIBRATION |
|---------|-------------|
| 6269 21 | 2.8117E 01  |
| 6269 22 | 2.7300E 01  |
| 6269 23 | 2.8439E 01  |
| 6269 24 | 2.8034E 01  |
| 6269 25 | 2.9437E 01  |
| 6269 26 | 2.7402E 01  |

| AVERAGE | STD DEV | STD ERROR | AVE SIG/2*NOISE |
|---------|---------|-----------|-----------------|
|---------|---------|-----------|-----------------|

CENTER SEISMOMETER  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.72072E 01

UNPHASED SUM  
SIGNIFICANCE  
SIGNAL/2\*NOISE  
CALIBRATION 2.73397E 01



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(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

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2b. GROUP  
None

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None

Advanced Research Projects Agency,  
Department of Defense

Signal and noise responsiveness at LASA are presented. Signal responsiveness is given as peak-to-peak measurements. Noise responsiveness is given as spectral estimates in various frequency bands.

LASA  
seismology

seismometers  
signal response

noise response

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